
LPCB Red Book



Part: 1

Fire detection and alarm
products, systems & cables

bre

Introduction

BRE Global Ltd, based in the UK near London, is an independent third party organisation offering certification of fire, security and sustainability products and services to an international market. LPCB is the certification brand used for fire and security products and services. The LPCB mark is accepted worldwide. We have representative offices in China, India and Dubai. We are owned by the BRE Trust, a not-for-profit organisation.

LPCB listings can be accessed, free of charge, at www.redbooklive.com.

BRE Global additionally carries out:

- Fire Investigation
- Fire Risk Assessment
- Fire Safety Engineering
- Research
- Training

LPCB Listings

Listings are given in sections which list related groups of products and services such as suppression, security and so on. Each section also summarises the technical basis for the certification of each product or service. The Red Book listings should always be used in conjunction with rules, regulations and design specifications required by the relevant Authority having jurisdiction.

Listings comprise:

Volume 1: (This Volume)

- **Fire detection and alarm products, systems, and cables**
- **Manual fire extinguishing equipment**
- **Automatic sprinkler, water spray and deluge systems**
- **Fixed fire fighting products and systems**
- **Watermist systems**
- **Related installers**

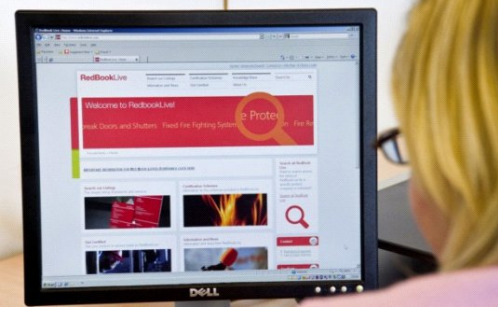
Volume 2:

- Passive fire protection products
- Security protection products
- Fire doors and shutters
- Smoke and fire ventilation systems
- Security Assessments - SABRE
- Related installers
- Management Systems
- Construction products

Listings are given in the name of the manufacturer or service provider, in alphabetical order. They can be downloaded free of charge from our website at www.redbooklive.com

Updates

Certification of products and services are updated regularly. To ensure that you are using the most up to date information please refer to www.redbooklive.com.



What is Third Party Certification?

A frequent concern of stakeholders is in knowing whether a product will perform in accordance with the stated specifications. These concerns can involve such product attributes as safety, health or environmental impacts, durability, compatibility, suitability for intended purposes or for stated conditions, and other similar considerations. These issues can all be addressed through product certification.

Third party certification is a conformity assessment process, carried out by a body that is independent of both supplier and customer organisations. It provides confirmation that products and services have met and will continue to meet the requirements of specified standards and other normative documents.

LPCB third party product certification schemes are quality assurance schemes and comprise initial type testing and technical evaluation, assessment and surveillance of the manufacturer's quality system and factory production procedures, regular audit testing, labelling and listing.

Similarly, LPCB schemes for suppliers of services (installers) are also quality assurance schemes comprising a technical assessment of an installer's capability, assessment and surveillance of the installer's quality system and production procedures, regular inspection of completed installations and listing.

Benefits of Third Party Certification

For specifiers, regulators, insurers, manufacturers and installers, the benefits of an LPCB approval are:

For specifiers and regulators:

- Risk reduction - specifying LPCB approved products and services demonstrates due-diligence and best endeavour and mitigates against possible accusations of negligence.
- Avoidance of costly mistakes - you can trust LPCB approved products and services to conform each and every time.
- Time - using Red Book Live to search for and assess products and services can save you time.

For manufacturers and installers:

- Increased global sales - LPCB approval is recognised and specified widely throughout the world. In some territories LPCB approval is a mandatory requirement.
- Added value of the product or service - LPCB approved products and services are recognised as providing added value given their ability to conform each and every time.
- Reduced liability - LPCB approved products and services demonstrate due-diligence which can reduce liability for both you and your customers.

What does LPCB Certification offer?

LPCB certification is carried out against Loss Prevention Standards (LPS's). These LPS's include reference to BS, EN or ISO standards as appropriate. LPCB certification are level 5 schemes as detailed in ISO/ IEC 17067 with the added requirement to have a quality system certificated to ISO 9001.

The technical requirements of LPCB schemes are given in the Loss Prevention Standards (LPSs). These documents are drafted by LPCB technical experts in conjunction with appropriate external experts. They are then peer reviewed by representatives from trade bodies, regulators, insurers, specifiers, manufacturers and other suppliers. Finally these documents are approved for use by the BRE Global Governing Body; the Body that oversees all of the certification activities of BRE Global.

VOLUME 1 LIST OF APPROVED PRODUCTS AND SERVICES

Product schemes comprise:

- Initial type testing and evaluation of product.
- Approval and surveillance of the manufacturer's (or supplier's) quality management system to ISO 9001
- Assessment and surveillance of the manufacturer's (or supplier) factory production control system (FPC).
- Periodic audit testing of the product from either the factory or marketplace.
- Labelling or marking as appropriate.
- Listing on Red Book Live

Installer schemes comprise:

- Technical assessment of the installation contractor's capability.
- Approval and surveillance of the contractor's quality management system to ISO 9001 or assessment against the requirements of the relevant Loss Prevention Standard where ISO 9001 is not appropriate.
- Regular surveillance inspections of on-going installations.
- The issue of Certificates of Conformity by the installer to demonstrate compliance for each installation.
- Listing in the Red Book.

The LPCB Mark - the Mark you can trust

After certification of a product or service the manufacturer or service provider may place the LPCB certification mark, as shown below, on the product, packaging and literature etc.



Where LPCB holds accreditation through the United Kingdom Accreditation Service (UKAS), the certified company may include the UKAS symbol (the Crown and Tick) alongside the LPCB mark for certain applications e.g. promotional literature or material and stationery, as shown below.



(Full details of LPCB accreditation can be found on the UKAS website at www.ukas.com)

Where for reasons of space or cost the use of the above full mark is not practical, then the following simplified mark may be applied directly to the product (for some schemes only). The LPCB scheme rules define how and where the marks can be used.



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Part

1

*FIRE DETECTION AND
ALARM PRODUCTS,
SYSTEMS & CABLES*

PART 1: FIRE DETECTION AND ALARM PRODUCTS, SYSTEMS & CABLES

INTRODUCTION

A working fire detection and alarm system will increase the level of safety in a building by automatically warning occupants of fire before they would otherwise detect it.

To ensure the system works, the system must be designed correctly, products must be correctly selected and the systems must be correctly installed and maintained. It is recommended that all systems are designed, installed, commissioned and maintained by contractors who are approved by LPCB to LPS 1014 and that they are connected to Alarm Receiving Centres approved to LPS 1020.

Listings in this section include:

Products

- Control and indicating equipment including voice alarm and power supplies
- Wireless, flame, beam, aspirating, smoke, heat and multi-sensor detectors
- Manual call points
- Line units including input and output devices
- Alarm warning devices including visual alarms, loudspeakers and sounders
- Cables
- Alarm transmission equipment
- Signalling systems

Products are approved in accordance with a range of standards. The details of these standards are given at the front of each section relevant to the product. Some of the above products may be hard wired or wireless (Radio link). Wireless products should also be approved to EN 54-25.

Systems

Fire detection and alarm systems are approved for system compatibility in accordance with:

- *LPS 1054: Requirements and testing procedures for the approval and listing of component compatibility for fire detection and alarm systems.*
- *EN 54 - Part 13: Compatibility assessment for system components.*

Design, installation, commissioning and maintenance contractors

Contractors are approved in accordance with:

- *LPS 1014: Requirements for certificated fire detection and alarm system firms.*
- *LPS 1020: Alarm Receiving Centres*

WHY USE AN LPS 1014 APPROVED COMPANY?

Even with the best equipment, fire detection and alarm systems are only effective if correctly designed, installed, commissioned and serviced. It is therefore important that specifiers select only competent firms with a proven track record to undertake the work.

LPS 1014 *Requirements for Certificated Fire Detection and Alarm System Firms* meets these requirements in full.

LPS 1014 requires **one** encompassing Certificate of Conformity for the project, i.e. single point responsibility, which benefits all parties concerned, i.e. the insurer, the fire brigade, the building owner, etc. It is based on BS 5839-1 and also requires the use of third party approved products. For each system specifiers should request the issue of an LPCB Certificate of Conformity as part of the contract which:

- certifies that the fire detection and alarm system was designed, installed and commissioned in accordance with the installation rules applied, and
- ensures that the system is recorded by LPCB as a certificated fire detection and alarm installation.

The availability of more varied and sophisticated fire detection and alarm equipment means that it is even more important that firms listed to LPS 1014 are regularly assessed by LPCB for their competence to design, install, commission and service fire detection and alarm systems in accordance with acceptable installation rules or codes of practice.

Additional offices

Where a firm has additional offices, each office must meet the requirements of LPS 1014 to be eligible for certification, and is separately listed.

Provisional Approval

Firms with limited experience and track record can gain Provisional Approval in the LPS 1014 scheme. Their work is closely monitored by LPCB and when they have completed the requisite number of fire detection and alarm systems contracts over a period of not less than 2 years, and subject to satisfactory performance, they will be given full approval and listed in this section of the Red Book.

Aarhus Fire Protection Limited

Aarhus House, 4 Moss Lane, Whitefield, Manchester M45 6HG, United Kingdom

Tel: +44 (0)161 767 8715 • Fax: +44 (0)161 767 8716

E-mail: response@aarhusfire.co.uk • Website: www.aarhusfire.co.uk

Certificate No. CFA-187 to LPS 1014

ABCA Systems Limited

Unit 24, Mylord Crescent, Camperdown Industrial Estate, Killingworth, Tyne & Wear NE12 5UJ, United Kingdom

Tel: +44 (0)333 121 0999

E-mail: philip.miller@abcasystems.co.uk

Certificate No. CFA-206 to LPS 1014

PART 1: SECTION 1

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

ADT Fire and Security

Tyco Park, Grimshaw Lane, Newton Heath, Manchester M40 2WL, United Kingdom
Tel: +44 (0)161 252 5500 • Fax: +44 (0)161 252 5688

Certificate No. CFA-109 to LPS 1014

Alberta Fire & Security Equipment Limited

San Gwarkin Road, Mriehel, BKR 3000, Malta
Tel: +356 21 443538 • Fax: +356 21 484077
E-mail: enquiries@alberta.com.mt • Website: www.alberta.com.mt

Certificate No. CFA-177 to LPS 1014

Argus Fire Protection Company Limited

Hendglade House, 46 New Road, Stourbridge, West Midlands DY8 1PA, United Kingdom
Tel: +44 (0)1384 376256 • Fax: +44 (0)1384 393955
E-mail: info@argusfire.co.uk • Website: www.argusfire.co.uk

Certificate No. CFA-148 to LPS 1014

BBC Fire Protection Limited

St Florian House, Ayton Road, Wymondham, Norfolk NR18 0QH, United Kingdom
Tel: +44 (0)1953 857700 • Fax: +44 (0)1953 857750
E-mail: sales@bbcfire.co.uk • Website: www.bbcfire.co.uk

Certificate No. CFA-126 to LPS 1014

CAMS Fire & Security PLC

6 Wedgwood Court, Wedgwood Way, Pin Green Industrial Area, Stevenage, Hertfordshire SG1 4QR, United Kingdom
Tel: +44 (0)1438 740840 • Fax: +44 (0)1438 737969
E-mail: info@camsfire.co.uk / info@camssecurity.co.uk • Website: www.camssecurity.co.uk/

Certificate No. CFA-190 to LPS1014

Channel Fire Systems Limited

44 High Street, New Romney, Kent TN28 8BZ, United Kingdom
Tel: +44 (0)1797 335050
E-mail: info@channelfs.com • Website: www.channelfs.com

Certificate No. CFA-201 to LPS 1014

Chubb Fire & Security Ltd t/a Chubb Mechanical

Littleton Road, Ashford, Middlesex TW15 1TZ, United Kingdom

Tel: +44 (0)1784 425950

E-mail: mechanical@chubb.co.uk • Website: www.chubb.co.uk

Certificate No. CFA-193 to LPS 1014

Churches Fire Security Limited

Fire House, Mayflower Close, Chandlers Ford, Eastleigh, Hampshire SO53 4AR, United Kingdom

Tel: 0370 608 4350 • Fax: 0870 608 4351

E-mail: sales@churchesfire.com • Website: www.churchesfire.com

Certificate No. CFA-192 to LPS 1014

Clymac Limited

Cloudway Court, Belton Road, Loughborough LE11 1LW, United Kingdom

Tel: +44 (0)1509 232651 • Fax: +44 (0)1509 232665

E-mail: sales@clymac.co.uk • Website: www.clymac.co.uk

Certificate No. CFA-154 to LPS 1014

CTM Fire & Security Limited trading as Thompson Group Services

Unit 2, Osprey Place, Moss Side Industrial Estate, Leyland PR26 7EW, United Kingdom

Tel: +44 (0)1772 641226 • Fax: +44 (0)1772 641227

E-mail: info@thompsongroupservices.com • Website: www.thompsongroupservices.com

Certificate No. CFA-156 to LPS 1014

Daemon Fire and Security Limited

Daemon House, 41-42 Albert Road, Tamworth, Staffs B79 7JS, United Kingdom

Tel: +44 (0)1827 69266

E-mail: sales@daemonfire.co.uk

Certificate No. CFA-145 to LPS 1014

DAS Fire Limited

Unit 13 Campbell Court, Bramley, Tadley, Hampshire RG26 5EG, United Kingdom

Tel: +44 (0)845 544 2316

E-mail: info@dasfire.com • Website: www.dasfire.com

Certificate No. CFA-207 to LPS 1014

PART 1: SECTION 1

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

Defensor Maintenance Limited trading as Defensor Life Safety Systems

Defensor House, 15 Kingsley Street, Leicester LE2 6DY, United Kingdom

Tel: +44 (0)116 244 8689 • Fax: +44 (0)116 244 8884

E-mail: G.McCartney@defensorlifesafety.com

Certificate No. CFA-161 to LPS 1014

Direction Fire Limited

Unit 5, Fire Quarter, Blenheim Road, Epsom, Surrey KT19 9QN, United Kingdom

Tel: +44 (0)1372 744499

E-mail: general@directionfire.co.uk • Website: www.directionfire.co.uk

Certificate No. CFA-178 to LPS 1014

EA-RS Fire Engineering Limited

4 Swanbridge Industrial Park, Black Croft Road, Witham, Essex CM8 3YN, United Kingdom

Tel: +44 (0)1376 503680

E-mail: onesolution@ea-rsfire.com • Website: www.ea-rsfire.com

Certificate No. CFA-182 to LPS 1014

EMCOR Group (UK) plc, EMCOR UK - Fire and Security

Premier House, Tollgate, Eastleigh, Hampshire SO53 3YE, United Kingdom

Tel: 0800 085 4659 • Fax: +44 (0)2380 648191

E-mail: F&S@emcoruk.com • Website: www.emcoruk.com

Certificate No. CFA-151 to LPS 1014

Emico Limited

Innovation House, 39 Mark Road, Hemel Hempstead, Hertfordshire HP2 7DN, United Kingdom

Tel: +44 (0)1442 213111 • Fax: +44 (0)1442 236945

E-mail: contact@emico.co • Website: www.emico.co

Certificate No. CFA-185 to LPS 1014

ENGIE Services Limited

20th Floor, 25 Canada Square, Canary Wharf, London E14 5LB, United Kingdom

Tel: +44 (0)20 7320 8600

E-mail: jordan.obrien@engie.com

Certificate No. CFA-205 to LPS 1014

Fire Design Solutions Limited

Fire Design Solutions Limited, 152-154 London Road, Greenhithe, Dartford, Kent DA9 9JW, United Kingdom
Tel: +44 (0)1322 387411 • Fax: +44 (0)1322 386361
E-mail: estimating@fdsuk.com • Website: www.firedesignsolutions.com

Certificate No. CFA-213 to LPS 1014

Firetecnic Systems Limited

Firetecnic House, 328 St James's Road, London SE1 5JX, United Kingdom
Tel: +44 (0) 20 7587 0927 • Fax: +44 (0) 20 7740 3567
E-mail: info@firetecnic.co.uk • Website: www.firetecnic.com

Certificate No. CFA-146 to LPS 1014

G.B. Electronics Limited trading as GBE Converge

GBEC House, 31 Barnett Way, Barnwood, Gloucester GL4 3RT, United Kingdom
Tel: +44 (0)8451 220884 • Fax: +44 (0)845 1220885
E-mail: info@gbeconverge.com • Website: www.gbeconverge.com

Certificate No. CFA-180 to LPS 1014

Global Fire Systems Limited trading as Global Fire & Security Systems

15 The Triangle, NG2 Business Park, Queens Drive, Nottingham NG2 1AE, United Kingdom
Tel: +44 (0)870 220 8211 • Fax: +44 (0)115 943 8999
E-mail: g.shillingford@globalfireandsecurity.co.uk • Website: www.globalfireandsecurity.co.uk

Certificate No. CFA-189 to LPS 1014

Grainger Fire Systems

Thornley House, Carrington Business Park, Carrington, Manchester M31 4XL, United Kingdom
Tel: +44 (0)161 777 6700 • Fax: +44 (0)161 777 6638
E-mail: info@grainger-fire.co.uk

The following location is included within the scope of certification for servicing:

Unit 1A, Newton Court, Wavertree Technology Park, Wavertree, Liverpool L13 1EJ
Tel: +44 (0)151 220 4068 • Fax: +44 (0)151 259 4365

Certificate No. CFA-125 to LPS 1014

PART 1: SECTION 1

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

Hall & Kay Fire Services Limited trading as Hall & Kay Fire Engineering (Ascot)

Unit E - Science Park, Silwood Business Park, Ascot, Berkshire SL5 7PW, United Kingdom

Tel: +44 (0)1344 203800 • Fax: +44 (0)1344 203801

E-mail: MatthewC.Jones@hkfire.co.uk • Website: www.hkfire.co.uk

Certificate No. CFA-147 to LPS 1014

Harmony Fire Limited

Clark House, Higher Kingsbury, Milborne Port, Somerset DT9 5EB, United Kingdom

Tel: +44 (0)1963 361250

E-mail: info@harmonyfire.co.uk • Website: www.harmonyfire.co.uk

Certificate No. CFA-211 to LPS 1014

Honeywell Control Systems Limited trading as Honeywell Building Solutions

Honeywell House, Skimped Hill Lane, Bracknell, Berkshire RG12 1EB, United Kingdom

Tel: +44 (0)1344 656000

E-mail: cfserviceadminfire@honeywell.com • Website: www.honeywell.com

Certificate No. CFA-214 to LPS 1014

I.C. Service & Maintenance Limited

Unit K3 Temple Court, Knights Park, Knight Road, Strood, Kent ME2 2LT, United Kingdom

Tel: +44 (0)1634 290300 • Fax: +44 (0)1634 290700

E-mail: sales@icservice.uk.com • Website: www.icservice.uk.com

Certificate No. CFA-158 to LPS 1014

Indigo Systems Limited

2A Croham Road, South Croydon, Surrey CR2 7BA, United Kingdom

Tel: +44 (0)208 681 1616

E-mail: lee@indigosystems.ltd.uk • Website: www.indigosystems.ltd.uk

Certificate No. CFA-203 to LPS 1014

Integr8 Building Services Limited

203-205 High Street, Orpington, Kent BR6 0PF, United Kingdom

Tel: +44 (0)1689 422423

E-mail: enquiries@i8.london • Website: i8.london

Certificate No. CFA-138 to LPS 1014

Integrated Fire Safety Systems Limited

26 Nightingale Crescent, Leatherhead, Surrey KT24 6PD, United Kingdom

Tel: +44 (0)1483 673173

E-mail: info@IFSSystems.co.uk • Website: www.ifssystems.co.uk

Certificate No. CFA-212 to LPS 1014

Kingfisher Security (UK) Limited trading as Kingfisher Fire & Security

1 Riverside Industrial Estate, Dogflud Way, Farnham GU9 7UG, United Kingdom

Tel: +44 (0)1252 710809 • Fax: +44 (0)1252 710816

E-mail: info@kingfishersecurity.co.uk • Website: www.kingfishersecurity.co.uk

Certificate No. CFA-176 to LPS 1014

Lloret Fire & Security Limited

Lloret House, Ullswater Crescent, Coulsdon, Surrey CR5 2HR, United Kingdom

Tel: +44 (0) 208 410 4600 • Fax: +44 (0) 208 668 9141

E-mail: info@lloret.co.uk • Website: www.lloret.co.uk

Certificate No. CFA-181 to LPS 1014

Lynch (I.E.I.) Limited

1 Barnet Hill, Barnet, Hertfordshire EN5 5YS, United Kingdom

Tel: +44 (0) 208 449 1105

E-mail: George.Elliott@lynchiei.com • Website: www.lynchiei.com

Certificate No. CFA-210 to LPS 1014

MECE Fire & Security Limited

Unit 12 Rochester Trade Park, Maidstone Road, Rochester, Kent ME1 3QY, United Kingdom

Tel: +44 (0)1634 260607 • Fax: +44 (0)1634 260278

E-mail: enquiries@mecefireandsecurity.co.uk • Website: www.mecefireandsecurity.co.uk

Certificate No. CFA-159 to LPS 1014

Mercury Engineering

Mercury House, Sandyford Industrial Estate, Foxrock, Dublin 18 D18 XH79, Ireland

Tel: +353 1 216 3000 • Fax: +353 1 216 3006

E-mail: fireprotection@mercuryeng.com • Website: www.mercuryeng.com

Certificate No. CFA-174 to LPS 1014

PART 1: SECTION 1

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

NG Bailey Limited

10th & 11th Floor, 20 Farringdon Street, London EC4A 4AB, United Kingdom

Tel: +44 (0)20 7843 0200

E-mail: martin.hall@ngbailey.co.uk • Website: www.ngbailey.com

Certificate No. CFA-209 to LPS 1014

NG Bailey Limited trading as Bailey Maintenance

7 Brown Lane West, Leeds LS12 6EH, United Kingdom

Tel: +44 (0)113 234 3443 • Fax: +44 (0)113 222 3925

E-mail: darrell.hawksworth@ngbailey.co.uk • Website: www.baileymaintenance.co.uk

Certificate No. CFA-165 to LPS 1014

North AVS Limited

Belvue Business Centre, Belvue Road, Northolt, Middlesex UB5 5QQ, United Kingdom

Tel: +44 (0)333 800 111

E-mail: enquiries@north.tech.co.uk • Website: www.north.tech.co.uk

Certificate No. CFA-179 to LPS 1014

PHF Fire a division of PHF

Unit 16, Twyford Business Centre, London Road, Bishops Stortford, Hertfordshire CM23 3YT, United Kingdom

Tel: +44 (0)1279 659125

E-mail: paul@phffire.com • Website: www.phffire.com

Certificate No. CFA-208 to LPS 1014

Protec Fire Detection plc

Protec House, Churchill Way, Nelson, Lancashire BB9 6RT, United Kingdom

Tel: +44 (0)1282 717171 • Fax: +44 (0)1282 717273

E-mail: sales@protec.co.uk • Website: www.protec.co.uk

Including the following satellite offices:

Unit 4, White Oak Square, London Road, Swanley, Kent BB8 1AG, United Kingdom

Tel: +44 (0)845 456 5394 • Fax: +44 (0)845 456 5395

Unit 10, Fulcrum 4, Solent Way, Whiteley, Fareham, Hampshire PO15 7FT, United Kingdom

Tel: +44 (0)845 456 5392 • Fax: +44 (0)845 456 5393

5 Morston Court, Blakeney Way, Kingswood Lakeside, Cannock, Staffordshire WS11 8JB, United Kingdom

Tel: +44 (0)845 456 5398 • Fax: +44 (0)845 456 5399

Unit 1, Ashfield Court, Whitehall Road, Leeds LS12 5JB, United Kingdom

Tel: +44 (0)845 456 53388 • Fax: +44 (0)845 456 53389

Certificate No. CFA-132 to LPS 1014

Pyrotec Fire Protection Limited

Unit 8, Caburn Enterprise Park, The Broyle, Ringmer, East Sussex BN8 5NP, United Kingdom

Tel: +44 (0)1273 812376

E-mail: sales@pyrotec.co.uk • Website: www.pyrotec.co.uk

Certificate No. CFA-202 to LPS 1014

Quinn Infrastructure Services Limited

Minster House, 42 Mincing Lane, London EC3R 7AE, United Kingdom

Tel: +44 (0)207 993 0731 • Fax: +44 (0)203 757 0580

E-mail: samantha.young@quinninfrastructure.co.uk • Website: www.quinninfrastructure.co.uk

Certificate No. CFA-143 to LPS 1014

Reed M & E Limited

M & E House, 135 Red Lion Road, Surbiton, Surrey KT6 7RQ, United Kingdom

Tel: +44 (0)20 8397 2161 • Fax: +44 (0)20 8974 1542

E-mail: robert@reedme.org.uk • Website: www.reedme.org.uk

Certificate No. CFA-196 to LPS 1014

PART 1: SECTION 1

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

Senseco Systems Limited

6 Ambley Green, Bailey Drive, Gillingham Business Park, Gillingham, Kent ME8 0NJ, United Kingdom

Tel: +44 (0)845 644 2888 • Fax: +44 (0)845 644 2899

E-mail: sales@sensecosystems.com • Website: www.sensecosystems.com

Certificate No. CFA-198 to LPS 1014

Sensetech Systems Limited

Langdale House, 11 Marshalsea Road, London SE1 1EN, United Kingdom

Tel: +44 (0)845 689 9099 • Fax: +44 (0)207 8633238

E-mail: info@sensetechsystems.co.uk • Website: www.sensetechsystems.co.uk

Certificate No. CFA-184 to LPS 1014

Siemens Plc, Smart Infrastructure (Regional Solutions & Service)

Brunel House, Sir William Siemens Square, Frimley, Camberley, Surrey GU16 8QD, United Kingdom

Tel: +44 (0)1276 696000 • Fax: +44 (0)1276 696133

E-mail: sales.uk.sbt@siemens.com • Website: www.siemens.co.uk/buildingtechnologies

Certificate No. CFA-100 to LPS 1014

SPIE Scotshield Limited

1 Rutherglen Links, Rutherglen Links Business Park, Glasgow G73 1DF, United Kingdom

Tel: +44 (0)141 613 7400

E-mail: jim.martin@spie.com • Website: www.spieuk.com

Including the following satellite offices for service work only

9 Telford Court, Loansdean, Morpeth, Newcastle NE61 2DB, United Kingdom

Tel: +44 (0)1670 516291

Suite D - 10 Heron Road, Sydenham Business Park, Belfast BT3 9LE, Ireland

Tel: +44 (0)28 9045 7076

Leven House, Unit 10 Lochside Place, Edinburgh Park, South Gyle, Edinburgh EH12 9RG

Tel: +44 (0)131 4522420

Venus Building, 1 Old Park Lane, Stretford, Manchester M41 7HA

Tel: +44(0)161 8367200

Certificate No. CFA-150 to LPS 1014

Static Systems Group Plc

Heath Mill Road, Wombourne, Staffordshire WV5 8AN, United Kingdom

Tel: +44 (0)1902 895551

E-mail: QA@staticsystems.co.uk • Website: www.staticsystems.co.uk

Certificate No. CFA-135 to LPS 1014

T V F (UK) Limited

59-69 Queens Road, High Wycombe, Buckinghamshire HP13 6AH, United Kingdom

Tel: +44 (0)1494 450641 • Fax: +44 (0)1494 465378

E-mail: customer.service@tvfltd.co.uk • Website: www.tvfltd.co.uk

Certificate No. CFA-128 to LPS 1014

TClarke Contracting Limited

45, Moorfields, London EC2Y 9AE, United Kingdom

Tel: +44 (0)207 997 7400 • Fax: +44 (0)207 997 7405

E-mail: info@tclarke.co.uk • Website: www.tclarke.co.uk

Certificate No. CFA-188 to LPS 1014

Thameside Fire Protection Co. Limited

Unit 4, Sovereign Park, Cranes Farm Road, Basildon, Essex SS14 3JD, United Kingdom

Tel: +44 (0)1268 597999 • Fax: +44 (0)1268 597998

E-mail: darko.petrovic@thamesidefire.co.uk • Website: www.thamesidefire.co.uk

Certificate No. CFA-171 to LPS 1014

Tri Management Limited

4 Park Parade, Park Road, Farnham Royal, Buckinghamshire SL2 3AU, United Kingdom

Tel: +44 (0)8443 350187 • Fax: +44 (0)1753 648647

E-mail: info@triman.co.uk • Website: www.triman.co.uk

Certificate No. CFA-204 to LPS 1014

Trinity Fire & Security Systems Limited

Little Bridge Business Park, Oil Mill Lane, Clyst St Mary, Exeter, Devon EX5 1AU, United Kingdom

Tel: +44 (0)1392 874455 • Fax: +44 (0)1392 875546

E-mail: info@trinityprotection.co.uk • Website: www.trinityprotection.co.uk

Certificate No. CFA-160 to LPS 1014

PART 1: SECTION 1

LPS 1014 CERTIFIED FIRE DETECTION AND ALARM SYSTEM FIRMS

Trinity Fire and Security Systems Ltd (Abingdon)

Central Hub, 9E Nuffield Trade Park, Nuffield Way, Abingdon, Oxfordshire OX14 1RN, United Kingdom

Tel: +44 (0)1235 862456 • Fax: +44 (0)1235 834450

E-mail: info@trinityprotection.co.uk • Website: www.trinityprotection.co.uk

Certificate No. CFA-168 to LPS 1014

Trinity Fire and Security Systems Ltd (Diseworth)

West Acre, The Walnut Yard, Gelscoe Lane, Diseworth, Derbyshire DE74 2AN, United Kingdom

Tel: +44 (0)1926 485080 • Fax: +44 (0)1926 485090

E-mail: info@trinityprotection.co.uk • Website: www.trinityprotection.co.uk

Certificate No. CFA-167 to LPS 1014

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Mucklow Office Park, Mucklow Hill, Halesowen, West Midlands B62 8DA, United Kingdom

Tel: +44 (0)121 255 6000 • Fax: +44 (0)121 255 6100

Website: www.tycofis.com

Certificate No. CFA-103 to LPS 1014

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

180 Aztec West, Almondsbury, Bristol BS32 4TU, United Kingdom

Tel: +44 (0)1454 240071 • Fax: +44 (0)1454 626443

Website: www.tycofis.com

Certificate No. CFA-170 to LPS 1014

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Security House, The Summit, Hanworth Road, Sunbury on Thames, Middlesex TW16 5DB, United Kingdom

Tel: +44 (0)1753 574111 • Fax: +44 (0)1753 824226

Website: www.tycofis.com

Certificate No. CFA-157 to LPS 1014

Vindex Systems Limited

7 Lloyds Court, Manor Royal, Crawley, West Sussex RH10 9QU, United Kingdom

Tel: +44 (0) 1293 558830

E-mail: sales@vindexsystems.com • Website: www.vindexsystems.com

Certificate No. CFA-200 to LPS 1014

Vipond Fire Protection Limited

10-12 Glenfield Road, Kelvin Industrial Estate, East Kilbride, Lanarkshire G75 0RA, United Kingdom

Tel: +44 (0)1355 2375 25/80/88 • Fax: +44 (0)1355 263399

E-mail: admin.uk@vipondltd.co.uk • Website: www.vipondfire.co.uk

Certificate No. CFA-173 to LPS 1014

Zone Systems Limited

Global House, 60 Westcliffe Road, Ruskington, Lincolnshire NG34 9AY, United Kingdom

Tel: +44 (0)1526 833999 • Fax: +44 (0)1526 833888

E-mail: sales@zonesystems.co.uk • Website: www.zonesystems.co.uk

Certificate No. CFA-194 to LPS 1014

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

A fire detection and fire alarm system is typically made up of a number of inter-linked components including detectors, manual call points, and alarm sounders connected to control and indicating equipment by means of one or more transmission paths. All system components, including the control and indicating equipment are also connected to a power supply directly or indirectly.

A fire detection and alarm system may be linked to other systems such as fire protection, or building management systems. These other systems are not considered as part of the fire detection and alarm systems.

The fire detection and alarm systems may be networked together.

Each of the components that constitute the fire detection and alarm system may be individually tested and approved against their appropriate standard to demonstrate their own performance and reliability but in order to ensure their compatibility and performance together within the system, certain system tests and requirements must be fulfilled.

The system standard specifies the requirements for compatibility and connectability assessment of system components that either comply with the requirements of EN 54 and/or with a manufacturer's specification. The standard also includes requirements for the integrity of the fire detection and fire alarm system when connected to other systems.

This section lists approved fire detection and alarm systems suitable for use in buildings for the protection of people and property. The system requirements ensure the compatibility of the different components of the system work reliably together. Each component of the fire detection and alarm systems listed in this section are approved to the applicable product standard and are listed in Sections 3, 4.1, 5, 6, and 7. The approval process for the system is outlined in scheme document SD040.

Systems listed in this section have been approved to LPS 1054: 2001 *Requirements for the evaluation of component compatibility for fire alarm systems*

This standard was designed for the UK market and applies to systems incorporating control and indicating equipment and power supply equipment complying with EN 54-2 *Fire detection and fire alarm systems - Control and indicating equipment* and EN 54-4 *Fire detection and fire alarm systems - Power supply equipment* respectively.

Networked systems are evaluated by ensuring that each control panel connected to the network can operate as a stand alone unit, in the event of failure of the network connections, and that failure of a control panel will not affect other control panels on the network.

LPCB is now accepting products for approval to EN 54-13: 2005 *Compatibility assessment for system components* which is applicable to the EU market and to LPS 1653: 2011 *Requirement for Network fire detection and alarm systems*.

Note: Since LPCB uses national and international standards for the listing of products, in some instances, the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Hochiki Corporation

10-43, Kamiosaki 2 Chrome, Shinagawa-ku, Tokyo, 141-8660, Japan

Tel: (+81) 3 5488 8685

E-mail: info@hochiki.co.jp • Website: <http://www.hochiki.co.jp>

Certificate No: 360c-(cl-2) to EN 54-13:2005

Certificated Products

Hochiki Latitude Fire Detection and Alarm System

The Hochiki Latitude Fire Detection and Alarm System comprises of the following:
Control and Indicating Equipment
Hochiki Latitude 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)
Hochiki Latitude 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)

LPCB Ref. No.
360c/01

The Hochiki Latitude CIE may be connected to the following equipment and devices:

Commercial Detectors (Hochiki Protocol)

ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour)
ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)
ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)
ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)
ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)
ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)
ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

LPCB Ref. No.

Colour) - 15 Meter
CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(Red Colour) - 15 Meter
CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(Red Colour)
CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White
Colour)
CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light)
(White Colour)
CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White
Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour) - 15 Meter
CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour) - 15 Meter
CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory
Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory
Colour)
CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory
Colour) - 15 Meter
CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory
Colour) - 15 Meter
CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(Red Colour)
CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(Red Colour)
CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light)
(Red Colour)
CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White
Light) (Red Colour)
CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(White Colour)
CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red
Light) (White Colour)
CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light)
(White Colour)
CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White
Light) (White Colour)
CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(Ivory Colour)
CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light)
(Ivory Colour)
CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red
Colour)
CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White
Colour)
CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red
Light) Beacon (White Colour)
CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red
Light) Beacon (Red Colour)
CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red
Light) Beacon (Red Colour)
CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder
(Red Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White
Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder
(White Light) Beacon (White Colour)
CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White
Light) Beacon (Red Colour)
CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White
Light) Beacon (Red Colour)
YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White
Colour)
YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White
Colour)
YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red

Certificated Products

**LPCB Ref.
No.**

Light) Beacon (White Colour)
 YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
 YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
 YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
 YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)
 YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)
 CWST-RW-S5 Conventional Beacon
 CWST-RW-W5 Conventional Beacon
 CWST-RR-S5 Conventional Beacon
 CWST-WW-S5 Conventional Beacon
 CWST-WW-W5 Conventional Beacon
 CWST-WR-S5 Conventional Beacon
 CWST-WR-W5 Conventional Beacon
Line Units (Hochiki Protocol)
 CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
 CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
 CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
 CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
 CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
 CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
 CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
 CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
 CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
 CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
 CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
 CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
 CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
 CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
 CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
 CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
 CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
 CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
 CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
 CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
 CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
 CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
 CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)
 CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module
 CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
 CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module
 CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
 CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

LPCB Ref.
No.

CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)
CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-POM Intelligent Analogue Addressable Powered Output Module
CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module
CHQ-SIM Intelligent Analogue Addressable Single Input Module
CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module
CHQ-SOM Intelligent Analogue Addressable Single Output Module
CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module
CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator
CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)
CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point
SCP-DPS Intelligent Analogue Addressable Type A Manual Call point
HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Short Circuit Isolating Bases

YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)
YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)
YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)
YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

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2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.

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Certificate No: 360c-(cl-1) to EN 54-13:2005

Certificated Products

LPCB Ref.
No.
360c/01

HFP Latitude Fire
Detection and Alarm
System

The HFP Latitude Fire Detection and Alarm System comprises of the following:
Control and Indicating Equipment
HFP Latitude 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)
HFP Latitude 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)

The HFP Latitude CIE may be connected to the following equipment and devices:

Commercial Detectors (Hochiki Protocol)
ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour)
ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

Certificated Products

**LPCB Ref.
No.**

Colour)
ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short
Circuit Isolator (White Colour)
ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short
Circuit Isolator (White Colour)
ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White
Colour)
ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short
Circuit Isolator (Ivory Colour)
ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short
Circuit Isolator (White Colour)
ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White
Colour)
ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White
Colour)
ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White
Colour)
ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White
Colour)
ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White
Colour)
ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short
Circuit Isolator (White)
ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short
Circuit Isolator (White)
ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)
ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)
ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short
Circuit Isolator (Ivory Colour)
ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short
Circuit Isolator (White)
ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White
Colour)
ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White
Colour)
ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short
Circuit Isolator (White Colour)
ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short
Circuit Isolator (White Colour)
ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)
ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White
Colour)
ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short
Circuit Isolator (White Colour)
ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short
Circuit Isolator (White Colour)

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red
Colour)
CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red
Colour)
CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red
Colour)
CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red
Colour) - 15 Meter
CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(Red Colour) - 15 Meter
CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(Red Colour)
CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White
Colour)
CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light)
(White Colour)
CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White
Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour) - 15 Meter
CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour) - 15 Meter

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

**LPCB Ref.
No.**

CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)
CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)
CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)
CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)
CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)
YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)
CWST-RW-S5 Conventional Beacon
CWST-RW-W5 Conventional Beacon
CWST-RR-S5 Conventional Beacon
CWST-WW-S5 Conventional Beacon

Certificated Products

**LPCB Ref.
No.**

CWST-WW-W5 Conventional Beacon
 CWST-WR-S5 Conventional Beacon
 CWST-WR-W5 Conventional Beacon
Line Units (Hochiki Protocol)
 CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short
 Circuit Isolator (DIN Rail Version)
 CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short
 Circuit Isolator
 CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with
 Short Circuit Isolator
 CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short
 Circuit Isolator
 CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short
 Circuit Isolator (DIN Rail Version)
 CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short
 Circuit Isolator (DIN Rail Version)
 CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short
 Circuit Isolator
 CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller
 with Short Circuit Isolator
 CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short
 Circuit Isolator
 CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short
 Circuit Isolator (DIN Rail Version)
 CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short
 Circuit Isolator
 CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with
 Short Circuit Isolator
 CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with
 Short Circuit Isolator (DIN Rail Version)
 CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller
 with Short Circuit Isolator
 CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with
 Short Circuit Isolator
 CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with
 Short Circuit Isolator (DIN Rail Version)
 CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with
 Short Circuit Isolator
 CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short
 Circuit Isolator
 CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short
 Circuit Isolator
 CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor
 with Short Circuit Isolator
 CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone
 Monitor with Short Circuit Isolator
 CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short
 Circuit Isolator
 CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone
 Monitor with Short Circuit Isolator (DIN Rail Version)
 CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module
 CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
 CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module
 CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit
 Isolator
 CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit
 Isolator (DIN Rail Version)
 CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit
 Isolator
 CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control
 Module with Short Circuit Isolator
 CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control
 Module with Short Circuit Isolator (DIN Rail Version)
 CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control
 Module with Short Circuit Isolator
 CHQ-POM Intelligent Analogue Addressable Powered Output Module
 CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module
 CHQ-SIM Intelligent Analogue Addressable Single Input Module
 CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module
 CHQ-SOM Intelligent Analogue Addressable Single Output Module
 CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module
 CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

Circuit Isolator
CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)
CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point
SCP-DPS Intelligent Analogue Addressable Type A Manual Call point
HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Short Circuit Isolating Bases

YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)
YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)
YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)
YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

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2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.

**LPCB Ref.
No.**

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Certificate No: 360c to EN 54-13:2005

Certificated Products

Taktis Fire Detection and Alarm System

The Taktis Fire Detection and Alarm System comprises of the following:
Control and Indicating Equipment

Taktis 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki and Apollo Protocols)

Taktis 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki and Apollo Protocols)

The Taktis CIE may be connected to the following equipment and devices:

Commercial Detectors (Hochiki Protocol)

ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour)

ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)

ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)

ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)

ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White

**LPCB Ref.
No.**
360c/01

Certificated Products

**LPCB Ref.
No.**

Colour)
 ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
 ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
 ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
 ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
 ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
 ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
 ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)
 ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)
 ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)
 ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
 ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
 ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
 ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
 ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
 ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)
 ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
 ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
 ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Commercial Detectors (Apollo Protocol)

58000-400 Discovery Heat Detector
 58000-700 Discovery Multi-sensor Detector
 55000-600 XP95 Optical Smoke Detector
 55000-620 XP95 Optical Smoke Detector
 55000-401 XP95 CS Heat Detector
 55000-400 XP95 A2S Heat Detector
 58000-600 Discovery Optical Smoke Detector
 55000-420 XP95 Heat Detector
 55000-660 XP95 Optical Smoke Detector (Black)
 55000-885 XP95 Multi-sensor Detector
 55000-500 XP95 Ionisation smoke Detector
 55000-520 XP95 Ionisation smoke Detector
 58000-500 Discovery Ionisation Smoke Detector
 SA5100-600 Soteria Optical sensor isolated
 SA5100-700 Soteria Multi-sensor isolated
 SA5100-400 Soteria Heat sensor isolated
 SA5000-600 Soteria Optical sensor non-isolated
 SA5000-700 Soteria Multi-sensor non-isolated
 SA5000-400 Soteria Heat sensor non-isolated

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
 CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
 CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
 CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
 CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
 CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
 CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
 CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
 CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

LPCB Ref. No.

Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour) - 15 Meter
CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour) - 15 Meter
CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light)
(White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory
Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory
Colour)
CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory
Colour) - 15 Meter
CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory
Colour) - 15 Meter
CHQ-WB(RE D)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(Red Colour)
CHQ-WB(RE D)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(Red Colour)
CHQ-WB(RE D)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light)
(Red Colour)
CHQ-WB(RE D)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White
Light) (Red Colour)
CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(White Colour)
CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red
Light) (White Colour)
CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light)
(White Colour)
CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White
Light) (White Colour)
CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light)
(Ivory Colour)
CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light)
(Ivory Colour)
CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red
Colour)
CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White
Colour)
CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red
Light) Beacon (White Colour)
CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red
Light) Beacon (Red Colour)
CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red
Light) Beacon (Red Colour)
CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder
(Red Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White
Light) Beacon (White Colour)
CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder
(White Light) Beacon (White Colour)
CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White
Light) Beacon (Red Colour)
CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White
Light) Beacon (Red Colour)
YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White
Colour)
YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White
Colour)
YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red
Light) Beacon (White Colour)
YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red
Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White
Light) Beacon (White Colour)
YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder
(White Light) Beacon (White Colour)
YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light)
Beacon (Ivory Colour)
YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White

Certificated Products

**LPCB Ref.
No.**

Light) Beacon (Ivory Colour)	
CWST-RW-S5	Conventional Beacon
CWST-RW-W5	Conventional Beacon
CWST-RR-S5	Conventional Beacon
CWST-WW-S5	Conventional Beacon
CWST-WW-W5	Conventional Beacon
CWST-WR-S5	Conventional Beacon
CWST-WR-W5	Conventional Beacon
Alarm Warning Devices (Apollo Protocol)	
45681-700	Discovery Sounder VAD Base with isolator
55000-006	XP95 Open -Area Sounder Visual indicator (WHITE)
58000-007	Discovery Open-Area Sounder Visual indicator (WHITE)
55000-005	XP95 Open-Area Sounder Visual indicator (RED)
58000-005	Discovery Open -Area Sounder Visual indicator (RED)
55000-002	XP95 Intelligent Open-Area Sounder W (WHITE)
55000-001	XP95 Intelligent Open-Area Sounder R (RED)
55000-741	Loop Powered Type A VAD 6m Red
55000-744	Loop Powered Type A VAD 6m White
55000-742	Loop Powered Type A VAD 8.5m Red
55000-745	Loop Powered Type A VAD 8.5m White
55000-743	Loop Powered Type A VAD 15m White
55000-740	Loop Powered Type A VAD 15m Red
Line Units (Hochiki Protocol)	
CHQ-DIM/DIN(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DIM/OEM(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM/OEM(HFP)-SCI	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2/DIN(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/DIN(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/OEM(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC/OEM(HFP)-SCI	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2/DIN(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC2(HFP)-SCI	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DSC/OEM(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC/DIN(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC/OEM(HFP)-SCI	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2/DIN(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC2(HFP)-SCI	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DZM(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)
CHQ-FTM	Intelligent Analogue 4-20mA Input/Output Module
CHQ-FTM/DIN	Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
CHQ-FTM(HFP)	Intelligent Analogue 4-20mA Input/Output Module

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

LPCB Ref.
No.

CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)
CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-POM Intelligent Analogue Addressable Powered Output Module
CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module
CHQ-SIM Intelligent Analogue Addressable Single Input Module
CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module
CHQ-SOM Intelligent Analogue Addressable Single Output Module
CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module
CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator
CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)
CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Line Units (Apollo Protocol)

SA4700-102 Soteria Input/Output Unit
SA4700-100 Soteria Switch Monitor
SA4700-103 Soteria Mains Switching Input/Output Unit
SA4700-104 Soteria Twin Input/Output Unit
SA6700-100 Soteria Twin Switch Monitor Plus
SA4700-302 Soteria DIN-Rail Input/Output Unit
SA4700-300 Soteria DIN-Rail Switch Monitor
SA4700-403 Soteria DIN-Rail Mains Switching Input/Output Unit
55000-760 Mini Switch Monitor
55000-797 DIN- RAIL Mains Input/Output Unit
55000-812 DIN-RAIL Zone Monitor Unit
55000-182 DIN-RAIL Sounder Controller (5 Amperres)
55000-847 Input/Output Unit with Isolator
55000-841 Switch Monitor Plus with Isolator
55000-845 XP95 Zone Monitor with isolator
55000-852 XP95 Sounder Control Unit with isolator
FL6100-600 Soteria Dimension
FL5100-600 Soteria Dimension Specialist
55000-855APO XP95 Analogue Addressable DIN-rail Protocol Translator - single channel

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call point
SCP-DPS Intelligent Analogue Addressable Type A Manual Call point
HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)
HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point with Short Circuit Isolator (SR Mounting Box)

Manual Call Points (Apollo Protocol)

SA5900-908 Intelligent Manual Call Point
SA5900-928MAR Intelligent Marine Manual Call Point
58100-950 Weatherproof Manual Call Point (Red)
58100-910 Discovery Manual Call Point (Red)
55100-905 XP95 Manual Call Point

Short Circuit Isolating Bases

YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)
YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)
YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)
YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

Certificated Products

**LPCB Ref.
No.**

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2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual document refMAN-1401

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, Italy 34147, United Kingdom
Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888
E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 154e to LPS 1054: Issue 2.1

Certificated Products

**LPCB Ref.
No.**
154e/S1

Notifier NFS2-8 Fire Alarm System Comprising the following products:

- Notifier Fire Systems Ltd
 - 124-345-002 NFS2-8, 2 Zone Conventional Control and Indicating Equipment
 - 124-345-004 NFS2-8, 4 Zone Conventional Control and Indicating Equipment
 - 124-345-008 NFS2-8, 8 Zone Conventional Control and Indicating Equipment
- Morley-IAS Fire Systems
 - ECO 1002 Photoelectric smoke and heat detector
 - ECO 1003 Photoelectric smoke detector
 - ECO 1004T High Temperature 78C heat detector class BS
 - ECO 1005 Heat detector class A1R
 - ECO 1005T Fixed temperature heat detector class A2S
- KAC Alarm Company Ltd
 - MCP1A-Rxxxxx Indoor/outdoor surface/flush mounting conventional manual call point
 - NS4/R Sounder 4 tone wall mounting conventional (red)
 - NS4/W Sounder 4 tone wall mounting conventional (white)
 - NS14/R Sounder 14 tones wall mounting conventional (red)
 - NS14/W Sounder 14 tones wall mounting conventional (white)

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 126bu to EN54-13: 2005
Certificate No: 126bs to EN54-13: 2005

Fire Detection and Alarm Systems

Certificated Products

**LPCB Ref.
No.**
126bs/01
126bu/01

FC121-ZA / FC122-ZA /
FC123-ZA / FC124-ZA
FC360 Fire Detection
System

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, Schaffhausen 8212, Switzerland

Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777

E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681ar-(cl-1) to EN 54-13: 2005

Certificate No: 681av-(cl-1) to EN 54-13: 2015

Certificate No: 681av-(cl-2) to EN 54-13: 2015

Certificated Products

FireClass Fire Detection System

Commercial Detectors

FC460P Digital Addressable Photoelectric Smoke Detector (4B, 4B-I and 5B)
FC460PH Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-I and 5B bases)
FC460PC Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-I and 5B bases)
FC460H Digital Addressable Class P Heat Detector (4B, 4B-I and 5B bases)

LPCB Ref.
No.
681ar/01

Manual Call Points

FC420CP-I Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator
FC421CP-I Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

Line Units

4B-I Short Circuit Isolator Base
FC410QIO Quad Input/Output Module with Short Circuit Isolator
FC410QRM Quad Relay Module with Short Circuit Isolator
FC410QMO Quad Monitored Output Module with Short Circuit Isolator
FC410CIM Contact Input Module
FC410DIM Detector Input Module
FC410RIM Relay Interface Module
FC410MIM Mini Input Module
FC410SNM Sounder Notification Module
FC410MIO Mini Input/Output Module
FC410BDM Beam Detector Interface Module
FC410DDM Detector Driver Module

Alarm Warning Devices

FC410LPSYR Addressable Loop Powered Type A Sounder (Red) with Short Circuit Isolator
FC410LPSYW Addressable Loop Powered Type A Sounder (White) with Short Circuit Isolator
FC410LPSY Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator
FC410LPAVR Addressable Loop Powered Type A Sounder Beacon (Red) with Short Circuit Isolator
FC410LPAVW Addressable Loop Powered Type A Sounder Beacon (White) with Short Circuit Isolator
FC410LPAV Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator
FC430LPASB Loop Powered Sounder Beacon Base with Short Circuit Isolator
FC430LPSB Loop Powered Sounder Base with Short Circuit Isolator
FC430SB Analogue Addressable Type A Sounder Base

Visual Alarm Devices

FC410LPBS-R Loop Powered Type A Beacon Sounder with Short Circuit Isolator
FC410LPBS-W Loop Powered Type A Beacon/Sounder with Short Circuit Isolator
FC410LPBS-LP Loop Powered Type B Beacon/Sounder with Short Circuit Isolator
FC430LPBSB-LP Loop Powered Beacon Sounder Base with Short Circuit Isolator

Control and Indicating Equipment

Certificated Products

**LPCB Ref.
No.**

Zettler Profile Fire Detection and Alarm System	<p>FC32-1 FireClass (557.200.701) Analogue Addressable Control and Indicating Equipment, 1 Loop, 32 Zone FC64-2 FireClass (557.200.702) Analogue Addressable Control and Indicating Equipment, 2 Loop, 64 Zone FC64-4 FireClass (557.200.703) Analogue Addressable Control and Indicating Equipment, 4 Loop, 64 Zone FC240-2 FireClass (557.200.704) Analogue Addressable Control and Indicating Equipment, 2 Loop, 240 Zone FC240-4 FireClass (557.200.705) Analogue Addressable Control and Indicating Equipment, 4 Loop, 240 Zone The Zettler Profile Fire Detection and Alarm System comprises of the following:</p> <p>Zettler Profile Control and Indicating Equipment Pro16xD with Pro16xBB Pro16xD 4-16 Loops Analogue Addressable Control & Indicating Equipment Pro16xBB 4-16 Loops Analogue Addressable Control & Indicating Equipment (Black Box)</p> <p>Pro32xD with Pro32xBB Pro32xD 4-32 Loops Analogue Addressable Control & Indicating Equipment Pro32xBB 4-32 Loops Analogue Addressable Control & Indicating Equipment (Black Box)</p> <p>Profile Flexible Control and Indicating Equipment Pro215S 1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing Pro215D 1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing Pro815D 4-8 Loops Analogue Addressable Control & Indicating Equipment Pro885D 4-8 Loops Analogue Addressable Control & Indicating Equipment Pro815D-CH 4-8 Loops Analogue Addressable Control & Indicating Equipment</p> <p>The Zettler Profile CIE may be connected to the following Equipment and devices:</p> <p>Control and Indicating Equipment via MX Network MX4000 2-8 Loop Analogue Addressable Control and Indicating Equipment MZX-250 Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone MZX-251 Analogue Addressable Control and Indicating Equipment 1 Loop, 32 Zone MZX-252 Analogue Addressable Control and Indicating Equipment 2 Loop, 32 Zone MZX-253 Analogue Addressable Control and Indicating Equipment 2-4 Loop, 64 Zone MZX-254 Analogue Addressable Control and Indicating Equipment 2-4 Loop, 240 Zone</p> <p>Commercial Detectors 830P MX Digital Addressable Photoelectric Smoke Detector 840P MX Digital Addressable Photoelectric Smoke Detector 850P MX digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator 830H MX Digital Addressable Class P Heat Detector 840H MX Digital Addressable Class P Heat Detector 850H MX Digital Addressable Class P Heat Detector with Short Circuit Isolator 830PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector 840PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector 850PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator 851PH MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator [Marine Version] 830PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector 840PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector 850PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator 851PCN MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator 851PHN MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator 801F MX Addressable Class 2 Flame Detector 801FEX Conventional Class 2 Intrinsically Safe Flame Detector VESDA VLC-800 High Sensitivity Aspirating Smoke Detector</p>	681av/01
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PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

**LPCB Ref.
No.**

VESDA VLF-250 High Sensitivity Aspirating Smoke Detector
VESDA VLF-500 High Sensitivity Aspirating Smoke Detector
VESDA VLP High Sensitivity Aspirating Smoke Detector
VESDA VLS High Sensitivity Aspirating Smoke Detector
VESDA Laser Industrial High Sensitivity Aspirating Smoke Detector

Manual Call Points

MCP820 Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator
MCP830 Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator

Alarm Warning Devices

LPSY865 Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator
LPSY800-R Symphoni MX Addressable Loop Powered Type A Sounder (Red) with Short Circuit Isolator
LPSY800-W Symphoni MX Addressable Loop Powered Type A Sounder (White) with Short Circuit Isolator
LPAV865 Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator
LPAV800-R Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator
LPAV800-W Symphoni MX Addressable Loop Powered Type B Sounder Beacon (White) with Short Circuit Isolator
LPBS800-R L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - Red Housing
LPBS800-W L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - White Housing
LPBS865 LP Beacon Symphoni Type B Sounder IP65, Red Housing with Short Circuit Isolator
LPBS3000 Loop Powered Beacon Sounder Base with Short Circuit Isolator (Type A Mounting Flange)
P80AVW Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing
P80AVR Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing
P80AVB Zettler Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing
P81AVB Zettler Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing
P80SB Zettler Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing
P80AIB Zettler Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing
P80SW Zettler Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing
P80SR Zettler Addressable Type A Indoor Wall Sounder with Short Circuit Isolator, Red Housing
P80AIW Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing
P80AIR Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing
P85SR Zettler Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing
P85AIR Zettler Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing
80DSB Zettler Type A Indoor Detector Base Sounder, White Housing
P85CAV Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing
P80CAVB Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear housing

Line Units

RIM800 Relay Interface Module
MIM800 Mini Input Module
CIM800 Contact Input Module
MIO800 Small Addressable Multi Input/Output Module
QIO850 Quad Input/Output Module with Short Circuit Isolator
QRM850 Quad Relay Module with Short Circuit Isolator
QMO850 Quad Monitored Output Module with Short Circuit Isolator
BDM800 Loop Powered Beam Detector Interface Module

Certificated Products

LPCB Ref. No.

SNM800 Sounder Notification Module
LAV800 Extinguishing Input Module
HVR800 High Voltage Relay Module

Power Supplies

PSU-A17 Addressable 17Ah Power Supply Unit
PSU-A38 Addressable 38Ah Power Supply Unit

Bases

4B-I Short Circuit Isolator Base
802SB Analogue Addressable Type A Sounder Base

Notes:

1) For further information on each individual product including approved sensitivities, heat classification, sounder tones etc., refer to model reference number(s) in the appropriate section of the RedBook online.

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual for profile panels document ref: PROFILE-PRO-SYS-EN54-13 Version 1.1 dated 18th May 2017.

FireClass Fire Detection and Alarm System

681av-(cl-2)

2) For further information on each transmission path compatibility and connectability refer to the manufacturers EN54-13 Manual for profile panels document ref: FC-FC700-SYS-EN54/13.

Bases

4B Universal Mounting Base
4B-I Isolator Base
5B Standard Mounting Base

General note:

For further information on each individual product including approved sensitivities, heat classification, sounder tones etc, refer to model reference number(s) in the appropriate section of the Red Book or on www.redbooklive.com

VES Fire Detection Systems

620 Allendale Road, King of Prussia, Philadelphia, PA. 19406, USA

Tel: (+1) 6109922238

E-mail: info@ves-network.com • Website: <http://www.ves-network.com>

Certificate No: 360c-(cl-3) to EN 54-13:2005

Certificated Products

LPCB Ref. No.

VES Latitude Fire Detection and Alarm System

The VES Latitude Fire Detection and Alarm System comprises of the following:
Control and Indicating Equipment
VES Latitude 2-8 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)
VES Latitude 2-16 Loop Analogue Addressable Control and Indicating Equipment (Hochiki Protocol)

360c/01

The VES Latitude CIE may be connected to the following equipment and devices:
Commercial Detectors (Hochiki Protocol)
ACB-EW Weatherproof Intelligent Analogue Addressable Class P Detector (Ivory Colour)
ACC-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACC-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACC-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

**LPCB Ref.
No.**

ACC-EN(SCI) Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (Ivory Colour)
ACC-EN(WHT)SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Colour)
ACD-E(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACD-E(HFP) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ACD-EN Intelligent Analogue Addressable Multi-Criteria Detector (Ivory Colour)
ACD-EN(WHT) Intelligent Analogue Addressable Multi-Criteria Detector (White Colour)
ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
ALN-E(HFP) Intelligent Analogue Addressable Optical Smoke Detector (White Colour)
ALN-E(WHT)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ALN-E(HFP)-SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ALN-EN Intelligent Analogue Addressable Optical Smoke Detector (Ivory Colour)
ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)
ALN-EN(SCI) Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (Ivory Colour)
ALN-EN(WHT)SCI Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (White)
ATJ-E(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(HFP) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-E(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-E(HFP)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN Intelligent Analogue Addressable Call P Heat Detector (Ivory Colour)
ATJ-EN(WHT) Intelligent Analogue Addressable Call P Heat Detector (White Colour)
ATJ-EN(SCI) Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)
ATJ-EN(WHT)-SCI Intelligent Analogue Addressable Call P Heat Detector with Short Circuit Isolator (White Colour)

Alarm Warning Devices (Hochiki Protocol)

CHQ-CB (RED)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (Red Colour)
CHQ-CB (RED)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (RED)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour) - 15 Meter
CHQ-CB (RED)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Red Colour)
CHQ-CB (WHT)/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/RL-HFP Intelligent Analogue Addressable Ceiling VAD (Red Light) (White Colour)
CHQ-CB (WHT)/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB (WHT)/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour) - 15 Meter
CHQ-CB (WHT)/WL-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (White Colour)
CHQ-CB/RL Intelligent Analogue Addressable Ceiling VAD (Red Light) (Ivory Colour)
CHQ-CB/WL Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour)
CHQ-CB/WL-15 Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter

Certificated Products

**LPCB Ref.
No.**

CHQ-CB/WL-15-HFP Intelligent Analogue Addressable Ceiling VAD (White Light) (Ivory Colour) - 15 Meter
 CHQ-WB(RED)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
 CHQ-WB(RED)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Red Colour)
 CHQ-WB(RED)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
 CHQ-WB(RED)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (Red Colour)
 CHQ-WB(WHT)/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
 CHQ-WB(WHT)/RL-HFP Intelligent Analogue Addressable Type A Wall VAD (Red Light) (White Colour)
 CHQ-WB(WHT)/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
 CHQ-WB(WHT)/WL-HFP Intelligent Analogue Addressable Type A Wall VAD (White Light) (White Colour)
 CHQ-WB/RL Intelligent Analogue Addressable Type A Wall VAD (Red Light) (Ivory Colour)
 CHQ-WB/WL Intelligent Analogue Addressable Type A Wall VAD (White Light) (Ivory Colour)
 CHQ-WS2 Intelligent Analogue Addressable Type A Wall Sounder (Red Colour)
 CHQ-WS2 (WHT) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
 CHQ-WS2(HFP) Intelligent Analogue Addressable Type A Wall Sounder (White Colour)
 CHQ-WSB2(WHT)/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
 CHQ-WSB2/RL Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
 CHQ-WSB2/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (Red Colour)
 CHQ-WSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (Red Light) Beacon (White Colour)
 CHQ-WSB2(WHT)/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
 CHQ-WSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (White Colour)
 CHQ-WSB2/WL Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
 CHQ-WSB2/WL-HFP Intelligent Analogue Addressable Type A/B Wall Sounder (White Light) Beacon (Red Colour)
 YBO-BS Intelligent Analogue Addressable Type A Base Sounder (Ivory Colour)
 YBO-BS (WHT) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
 YBO-BS(HFP) Intelligent Analogue Addressable Type A Base Sounder (White Colour)
 YBO-BSB2(WHT)/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
 YBO-BSB2(WHT)/RL-HFP Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (White Colour)
 YBO-BSB2(WHT)/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
 YBO-BSB2(WHT)/WL-HFP Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (White Colour)
 YBO-BSB2/RL Intelligent Analogue Addressable Type A Base Sounder (Red Light) Beacon (Ivory Colour)
 YBO-BSB2/WL Intelligent Analogue Addressable Type A Base Sounder (White Light) Beacon (Ivory Colour)
 CWST-RW-S5 Conventional Beacon
 CWST-RW-W5 Conventional Beacon
 CWST-RR-S5 Conventional Beacon
 CWST-WW-S5 Conventional Beacon
 CWST-WW-W5 Conventional Beacon
 CWST-WR-S5 Conventional Beacon
 CWST-WR-W5 Conventional Beacon
Line Units (Hochiki Protocol)
 CHQ-DIM/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
 CHQ-DIM/OEM(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator

PART 1: SECTION 2

FIRE DETECTION AND ALARM SYSTEMS

Certificated Products

**LPCB Ref.
No.**

CHQ-DIM/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator
CHQ-DIM2/DIN(SCI) Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC/OEM(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DRC2/DIN(SCI) Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DRC2(HFP)-SCI Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator
CHQ-DSC/OEM(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC/OEM(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DSC2/DIN(SCI) Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-DSC2(HFP)-SCI Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator
CHQ-DZM(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM(HFP)-SCI-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI) Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator
CHQ-DZM/DIN(SCI)-IS Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)
CHQ-FTM Intelligent Analogue 4-20mA Input/Output Module
CHQ-FTM/DIN Intelligent Analogue 4-20mA Input/Output Module (DIN Rail Version)
CHQ-FTM(HFP) Intelligent Analogue 4-20mA Input/Output Module
CHQ-MRC2(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-MRC2/DIN(SCI) Intelligent Analogue Mains Relay Controller with Short Circuit Isolator (DIN Rail Version)
CHQ-MRC2(HFP)-SCI Intelligent Analogue Mains Relay Controller with Short Circuit Isolator
CHQ-PCM(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-PCM/DIN(SCI) Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator (DIN Rail Version)
CHQ-PCM(HFP)-SCI Intelligent Analogue Addressable 4 Input 4 Output Plant Control Module with Short Circuit Isolator
CHQ-POM Intelligent Analogue Addressable Powered Output Module
CHQ-POM(HFP) Intelligent Analogue Addressable Powered Output Module
CHQ-SIM Intelligent Analogue Addressable Single Input Module
CHQ-SIM(HFP) Intelligent Analogue Addressable Single Input Module
CHQ-SOM Intelligent Analogue Addressable Single Output Module
CHQ-SOM(HFP) Intelligent Analogue Addressable Single Output Module
CHQ-SZM2(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator
CHQ-SZM2/DIN(SCI) Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator (DIN Rail Version)
CHQ-SZM2(HFP)-SCI Intelligent Analogue Addressable Single Zone Module with Short Circuit Isolator

Manual Call Points (Hochiki Protocol)

HCP-E(SCI) Intelligent Analogue Addressable Manual Call point with Short

Certificated Products

**LPCB Ref.
No.**

Circuit Isolator (SR Mounting Box)
HCP-E(HFP)-SCI Intelligent Analogue Addressable Manual Call point with Short
Circuit Isolator (SR Mounting Box)
SCP-W(DPS) Intelligent Analogue Addressable Type A Weatherproof Manual Call
point
SCP-DPS Intelligent Analogue Addressable Type A Manual Call point
HCP-W(SCI) Weatherproof Intelligent Analogue Addressable Manual Call point
with Short Circuit Isolator (SR Mounting Box)
HCP-W(HFP)-SCI Weatherproof Intelligent Analogue Addressable Manual Call point
with Short Circuit Isolator (SR Mounting Box)

Short Circuit Isolating Bases
YBN-R/3(SCI)-WHT Short Circuit Isolating Base (White Colour)
YBN-R/3(SCI) Short Circuit Isolating Base (Ivory Colour)
YBN-R/3(HFP)-SCI Short Circuit Isolating Base (Ivory Colour)
YBO-R/SCI(RED) Short Circuit Isolating Base (Red Colour)

> .
2) *For further information on each transmission path compatibility and
connectability refer to the manufacturers EN54-13 Manual document ref MAN-1401H.*

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Control and Indicating Equipment (CIE) is a component of a fire detection and alarm system through which other components may be connected to it such as detectors, manual call points, sounders, routing equipment, voice alarm equipment and fire protection equipment. It is supplied with power from power supply equipment which may be housed within the CIE enclosure or a separate enclosure.

CIE is used to receive and send out signals that are related to fire. CIE also monitors the system for faults (short and open circuit or power supply faults) and indicates the status of the fire detection and alarm system.

CIE designed to meet a European standard such as EN 54-2 or international standard such as ISO 7240-2 has certain options with requirements. For example, it may be designed to provide a signal to fire protection equipment or have dependencies on more than one alarm signal. Some CIEs have other functions which are not specified in the standard. These additional features are normally assessed such that they do not jeopardise compliance.

The choice of CIE is dependent on the specific applications as recommended in the application guidelines for a specific job or building.

Some CIEs have associated repeaters or mimic panels. These are normally used to repeat the indications given on the main CIE and sometimes they have control functions such as silencing sounders. There are no published standards that these repeaters or mimics can be tested against.

Voice Alarm Control and Indicating Equipment (VACIE) is a component of the fire alarm system which receives signals from the CIE or via manual control in order to activate messages via loudspeakers. VACIE may also include emergency microphone to broadcast live messages. The approval processes for this type of equipment is outlined in scheme document SD040.

This section lists Control and Indicating Equipment, Voice Alarm Control and Indicating Equipment approved for use in fire detection and fire alarm systems in buildings. Repeaters or mimics and power supply equipment listed in this section are only approved with their associated CIE and are subjected to the same environmental tests as the CIE. The approval processes for this type of equipment is outlined in scheme document SD040.

Products listed in this section have been approved to:

- EN 54-2: 1997 *Control and Indicating Equipment*;
- EN 54-2: 1997 + A1: 2006 *Control and Indicating Equipment*;
- EN 54-4: 1997 *Power supply equipment*;
- EN 54-4: 1997 + A1: 2002 and A2: 2006 *Power supply equipment*;
- ISO 7240-2: 2003 *Control and Indicating Equipment*;
- ISO 7240-4: 2003 *Power supply equipment*;
- EN 54-16:2008 *Voice Alarm Control and Indicating Equipment*.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. EN 54-2: 1997 is a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market from 1 August 2009. It is therefore recommended that control and Indicating Equipment are certificated to EN 54-2: 1997 + A1: 2002
2. EN 54-4: 1997 is a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market from 1 August 2009. It is therefore recommended that power supply equipment are certificated to EN 54-4: 1997 + A1: 2002 and A2: 2006.
3. Since LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

4. Where the Control and Indicating Equipment is of modular construction, and the use of certain modules (or printed circuit boards PCBs) is optional, these are listed with the applicable equipment.

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Certificate No: 429c-(cl-1) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.
429c/13

CNX-1-S

Single Loop Control and Indicating Equipment

ADKFAP01SA1 PANEL ADEMCO SINGLE LOOP A1 (System Sensor protocol)
ADKFAP01SA2 PANEL ADEMCO SINGLE LOOP A2 (System Sensor protocol)
ADKFAP01SA3 PANEL ADEMCO SINGLE LOOP A3 (System Sensor protocol)
Incorporating as modular units:

124-410-001 Base PCB 1 Loop
124-411 Display PCB
010-115 PSU RS-50-24

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal-Type B
- 7.12.3 Dependencies on more than one alarm signal-Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each addressable point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The Ax appendix relates to different market areas.

CNX-2-M

Two Loop Control and Indicating Equipment

429c/14

ADKFAP02SA1 PANEL ADEMCO TWO LOOP A1 (System Sensor protocol)
ADKFAP02SA2 PANEL ADEMCO TWO LOOP A2 (System Sensor protocol)
ADKFAP02SA3 PANEL ADEMCO TWO LOOP A3 (System Sensor protocol)

Incorporating as modular units:

124-410 Base PCB 2 Loop
124-411 Display PCB
010-116 PSU RS-100-24

Incorporating as optional modular units:

124-414 DXn Zone Expansion PCB
124-429 Loop Splitter PCB
124-430 DXc System I/O PCB (note: cannot be fitted with 124-414)
124-300 RS232 I/F

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output to fire protection equipment - Output type A
- 7.10.2 Output to fire protection equipment - Output type B
- 7.10.3 Output to fire protection equipment - Output type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each address points
- 10 Test condition

LPCB Ref.
No.

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The Ax appendix relates to different market areas.

CNX-4-M

Four Loop Control and Indicating Equipment

429c/15

- ADKFAP04SA1 PANEL ADEMCO FOUR LOOP A1 (System Sensor protocol)
- ADKFAP04SA2 PANEL ADEMCO FOUR LOOP A2 (System Sensor protocol)
- ADKFAP04SA3 PANEL ADEMCO FOUR LOOP A3 (System Sensor protocol)

Incorporating as modular units:

- 124-410 Base PCB 2 Loop
- 124-411 Display PCB
- 124-417 2 Loop PCB
- 010-116 PSU RS-100-24

Incorporating as optional modular units:

- 124-414 DXn Zone Expansion PCB
- 124-429 Loop Splitter PCB
- 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414)
- 124-300 RS232 I/F

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output to fire protection equipment - Output type A
- 7.10.2 Output to fire protection equipment - Output type B
- 7.10.3 Output to fire protection equipment - Output type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each address points
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The Ax appendix relates to different market areas.

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Certificate No: 544b to EN54-2: 1997+A1:2006 EN54-4: 1997+A1-2002+A2:2006

Control and indicating equipment

Certificated Products

QuickZone

- 2 and 4 Zone conventional control and indicating equipment
- QuickZone 2 (QZ-2)
- Incorporating as modular units:

LPCB Ref.
No.
544b/01

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

QuickZone XL	<p>TPC A01- QuickZone 2 (QZ-2) main PCB applicable on 2 zone CIE only TPC A02 QuickZone LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition QuickZone 4 (QZ-4) Incorporating as modular units: TPC A01- Quick Zone 4 (QZ-4) main PCB applicable on 4 zone CIE only TPC A02 QuickZone LED display PCB PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 4, 8 and 12 Zone conventional control and indicating equipment QuickZoneXL 4 Conventional Control Panel (QZXL-4) Incorporating as modular units: TPCA01-X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board PSM3.0-24 Power Supply QuickZoneXL 8 Conventional Control Panel (QZXL-8) Incorporating as modular units: TPCA01-X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-ZEC QuickZoneXL Standard 4 Zone Extension Board PSM3.0-24 Power Supply QuickZoneXL 8 Conventional Control Panel (QZXL-8HS) Incorporating as modular units: TPCA01-X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-HSZEC QuickZoneXL High Spec 4 Zone Extension Board PSM3.0-24 Power Supply QuickZoneXL 12 Conventional Control Panel (QZXL-12) TPCA01-X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-ZEO QuickZoneXL Standard 4 Zone Extension Board QZXL-ZEC QuickZoneXL High Spec 4 Zone Extension Board PSM3.0-24 Power Supply QuickZoneXL 12 Zone Conventional Control Panel (QZXL-12HS) TPCA01-X4 QuickZoneXL 4 Zone Main PCB TPCA03 QuickZoneXL Display Board QZXL-HSZEC Two QuickZoneXL Standard 4 Zone Extension Board PSM3.0-24 Power Supply Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	544b/02
QuickZone XL 16-32	<p>16, 24 and 32 Zone Conventional Control and Indicating Equipment QuickZone XL16 (QZXL-16) 16 Zone Conventional Control Panel Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB</p>	544b/03

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

QuickZone XL24 (QZXL-24) 24 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-24 24 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules
TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

QuickZone XL32 (QZXL-32) 32 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-32 32 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules
TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to outputs
- 7.12.1 Dependence on more than one alarm signal (Type A)
- 7.12.2 Dependence on more than one alarm signal (Type B)
- 7.12.3 Dependence on more than one alarm signal (Type C)
- 10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Certificate No: 1174e-(cl-6) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 1174j-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

SC-6831/16

16 Zone Conventional Control and Indicating Equipment

Incorporating the following units:

VSL2.908.004 16 Zone Control Board
VSL2.908.007 16 Zone Display Board
PD-100-24 AC/DC Power Supply Module
VSL2.908.005 16 Zone Signal Output Board

Certified with the following Options with requirements from EN 54-2:1997

**LPCB Ref.
No.**
1174e/01

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>7.8 <i>Output to fire alarm device(s)</i> 7.11 <i>Delay to outputs</i> 10 <i>Test condition</i> Note: 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	
<p>SC-6831/8 8 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 <i>Output to fire alarm device(s)</i> 7.11 <i>Delay to outputs</i> 10 <i>Test condition</i></p> <p>Note: 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/02
<p>SC-6831/4 4 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 <i>Output to fire alarm device(s)</i> 7.11 <i>Delay to outputs</i> 10 <i>Test condition</i></p> <p>Note: 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/03
<p>SC-6831/2 2 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 <i>Output to fire alarm device(s)</i> 7.11 <i>Delay to outputs</i> 10 <i>Test condition</i></p> <p>Note: 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/04
<p>SI-6847 4 Loop Analogue Addressable Control and Indicating Equipment</p> <p><i>Incorporating the following modules:</i> VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board VSL7-820-150 Zone Board VSL7-820-154 Network Card LRS-150-24 MEAN-WELL Power Supply module</p> <p><i>Certified with the following option with requirements for EN54-2:</i> 7.8 <i>Output to fire alarm devices</i> 7.10.1 <i>Outputs to fire protection equipment (Type A)</i> 7.10.2 <i>Outputs to fire protection equipment (Type B)</i></p>	1174j/01

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

- 7.10.3 Outputs to fire protection equipment (Type C)
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)
- 7.13 Alarm Counter
- 9.5 Disablement of addressable point
- 10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

LPCB Ref.
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Certificate No: 952a to EN54-2: 1997 + A1: 2006 and EN54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 952b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1998 + A1: 2002 + A2: 2006

Certificate No: 810a-(cl-1) to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Certificated Products

Zonefinder

2 and 4 Zone conventional control and indicating equipment
2183-0201, 2 Zone conventional control and indicating equipment

Incorporating as modular units:

TPC A01- E2 ZoneFinder two zone main PCB applicable on 2 zone CIE only
TPC A02 ZoneFinder LED display PCB
PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.12.1 Dependency on more than one alarm signal type A
- 10 Test condition

2183-0401, 4 Zone conventional control and indicating equipment

Incorporating as modular units:

TPC A01- E4 ZoneFinder four zone main PCB applicable on 4 zone CIE only
TPC A02 ZoneFinder LED display PCB
PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.12.1 Dependency on more than one alarm signal type A
- 10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Zonefinder Plus

2, 4, 6, 8 and 12 Zone conventional control and indicating equipment

2183-0202, 2 Zone Conventional Control Panel

LPCB Ref.
No.
810a/03

810a/04

Certificated Products

**LPCB Ref.
No.**

Incorporating as modular units:

TPCA01-X 2 ZoneFinder Plus 2 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
PSM3.0-24 Power Supply

2183-0402, 4 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X4 ZoneFinder Plus 4 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
PSM3.0-24 Power Supply

2183-0604, 6 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X2 ZoneFinder Plus 2 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-H ZoneFinder Plus High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

2183-0602, 6 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X2 ZoneFinder Plus 2 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-S ZoneFinder Plus Standard 4 Zone Extension Board
PSM3.0-24 Power Supply

2183-0804, 8 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X4 ZoneFinder Plus 4 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-H ZoneFinder Plus High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

2183-0802, 8 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X4 ZoneFinder Plus 4 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-S ZoneFinder Plus Standard 4 Zone Extension Board
PSM3.0-24 Power Supply

2183-1204, 12 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X4 ZoneFinder Plus 4 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-S Qty 2x ZoneFinder Plus High Spec 4 Zone Extension Board
TPCA04-H ZoneFinder Plus High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

2183-1202, 12 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X4 ZoneFinder Plus 4 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-S ZoneFinder Plus Standard 4 Zone Extension Board
PSM3.0-24 Power Supply

2183-1206 12 Zone Conventional Control Panel
Incorporating as modular units:

TPCA01-X4 ZoneFinder Plus 4 Zone Main PCB
TPCA03 ZoneFinder Plus Display Board
TPCA04-H Qty 2x ZoneFinder Plus High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Certified with the following options with requirements from EN 54 Part 2:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

	7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
LoopSense 8281-0105	One loop, 32 Zone analogue addressable control and indicating equipment. Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	952a/01
LoopSense 8281-0205	Two loop, 32 Zone analogue addressable control and indicating equipment. Incorporating the following units: BRD82MBA Main Termination Board BRD82ZICC Zone Interface & Control Card PSU2397 Power Supply Unit 8210-0001 2nd loop activation Key BRD82LSD Loop Activation Board ASS82ZICC Zone Indicator & LCD Assembly (8210) Certificated with the following options with requirements from EN54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	952a/02
8681-0108 FireFinder Plus	One loop, 32 Zone analogue addressable control and indicating equipment Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)	952b/01

Certificated Products

**LPCB Ref.
No.**

PSU1888 Power supply 5A (8610)

Optional Modules:

BRD43EZC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each addressable point
- 10 Test condition

8681-0208 FireFinder Plus Two loop, 32 Zone analogue addressable control and indicating equipment

952b/02

Incorporating as modular units:

BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCP4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Slave CPU card (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD43EZC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each addressable point
- 10 Test condition

8681-0308 FireFinder Plus Three loop, 32 Zone analogue addressable control and indicating equipment

952b/03

Incorporating as modular units:

BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCP4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Two Slave CPU cards (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86SCB3-A FFP Slave CPU cards (8610)
BRD43EZC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each addressable point
- 10 Test condition

Incorporating as modular units:

- BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
- BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
- BRD86FPB5-B FFP Front panel board EN54 (8610)
- BRD86MBA4-A FFP Main board LCD (8610)
- BRD86MCPU4-B FFP Main 64MB CPU card (8610)
- BRD86SCB3-A FFP Two Slave CPU cards (8610)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
- PSU1888 Power supply 5A (8610)

Optional Modules:

- BRD86DLTB4-A FFP Dual loop termination board (8610)
- BRD86SCB3-A FFP Slave CPU cards (8610)
- BRD43EZC2-A 8 Zone conventional module (4310)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each addressable point
- 10 Test condition

8681-0408 FireFinder Plus

Four loop, 32 Zone analogue addressable control and indicating equipment

952b/04

Incorporating as modular units:

- BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
- BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
- BRD86FPB5-B FFP Front panel board EN54 (8610)
- BRD86MBA4-A FFP Main board LCD (8610)
- BRD86MCPU4-B FFP Main 64MB CPU card (8610)
- BRD86SCB3-A FFP Three Slave CPU cards (8610)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
- PSU1888 Power supply 5A (8610)

Optional Modules:

- BRD86DLTB4-A FFP Dual loop termination board (8610)
- BRD86SCB3-A FFP Slave CPU cards (8610)
- BRD43EZC2-A 8 Zone conventional module (4310)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each addressable point
- 10 Test condition

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Certificate No: 966a to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 966b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1998 + A1: 2002 + A2: 2006

Certificated Products

**LPCB Ref.
No.**
966a/01

LoopSense 8281-0105 One loop, 32 Zone analogue addressable control and indicating equipment.

Incorporating the following units:

BRD82MBA	Main Termination Board
BRD82ZICC	Zone Interface & Control Card
PSU2397	Power Supply Unit
ASS82ZICC	Zone Indicator & LCD Assembly (8210)

Certificated with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each addressable point
- 10 Test condition

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

LoopSense 8281-0205 Two loop, 32 Zone analogue addressable control and indicating equipment.

966a/02

Incorporating the following units:

BRD82MBA	Main Termination Board
BRD82ZICC	Zone Interface & Control Card
PSU2397	Power Supply Unit
8210-0001	2nd loop activation Key
BRD82LSD	Loop Activation Board
ASS82ZICC	Zone Indicator & LCD Assembly (8210)

Certificated with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal Type A
- 7.12.2 Dependencies on more than one alarm signal Type B
- 7.12.3 Dependencies on more than one alarm signal Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each addressable point
- 10 Test condition

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

8681-0108 FireFinder Plus One loop, 32 Zone analogue addressable control and indicating equipment

966b/01

Incorporating as modular units:

BRD68BPSC4-A	FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A	FFP Dual loop termination board (8610)

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCP4-B FFP Main 64MB CPU card (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD43EZC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routine equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disablement of each addressable point
10 Test condition

8681-0208 FireFinder Plus

Two loop, 32 Zone analogue addressable control and indicating equipment

966b/02

Incorporating as modular units:

BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCP4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Slave CPU card (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD43EZC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routine equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disablement of each addressable point
10 Test condition

8681-0308 FireFinder Plus

Incorporating as modular units:

966b/03

BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCP4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Two Slave CPU cards (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86SCB3-A FFP Slave CPU cards (8610)
BRD43EZC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

Certificated Products

**LPCB Ref.
No.**

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each addressable point
- 10 Test condition

Incorporating as modular units:

- BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
- BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
- BRD86FPB5-B FFP Front panel board EN54 (8610)
- BRD86MBA4-A FFP Main board LCD (8610)
- BRD86MCP4-B FFP Main 64MB CPU card (8610)
- BRD86SCB3-A FFP Two Slave CPU cards (8610)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
- PSU1888 Power supply 5A (8610)

Optional Modules:

- BRD86DLTB4-A FFP Dual loop termination board (8610)
- BRD86SCB3-A FFP Slave CPU cards (8610)
- BRD43EZC2-A 8 Zone conventional module (4310)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each addressable point
- 10 Test condition

8681-0408 FireFinder Plus

Four loop, 32 Zone analogue addressable control and indicating equipment

966b/04

Incorporating as modular units:

- BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
- BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
- BRD86FPB5-B FFP Front panel board EN54 (8610)
- BRD86MBA4-A FFP Main board LCD (8610)
- BRD86MCP4-B FFP Main 64MB CPU card (8610)
- BRD86SCB3-A FFP Three Slave CPU cards (8610)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
- PSU1888 Power supply 5A (8610)

Optional Modules:

- BRD86DLTB4-A FFP Dual loop termination board (8610)
- BRD86SCB3-A FFP Slave CPU cards (8610)
- BRD43EZC2-A 8 Zone conventional module (4310)
- BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routine equipment
- 7.11 Delay to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signal from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each addressable point

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

10 Test condition

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No.**

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E-mail: sales@asl-control.co.uk • Website: www.asl-control.co.uk

Certificate No: 1043a to EN 54-16: 2008 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

ASL Rack mount voice alarm system

ASL Rack mount voice alarm system incorporating the following modules:

**LPCB Ref.
No.**
1043a/01

Incorporating any of the following modules:

VAR Series Routers:

VAR4(EN54) Router 4x4 DSP - EN54
VAR12(EN54) Router 12x12 DSP - EN54
VAR20(EN54) Router 20x20 DSP - EN54

VIPEDIA-12 Series Routers:

VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router
VIPEDIA-12-NET VIPEDIA 12x12 IP Voice Alarm Router with Networking Card
(Consists of VIPEDIA-12 and VIPEDIA-NET)
VIPEDIA-12-PRO VIPEDIA 12x12 IP Voice Alarm Router with Dante DSP Audio Processor (Consists of VIPEDIA-12 and VIPEDIA-PRO)

VIPEDIA-12 Optional modules:

VIPEDIA-NET VIPEDIA-12 Network Card
VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS
VIPEDIA-PRO VIPEDIA-12 Network Card with Dante DSP Audio Processor SFP

Optional Adaptors:

SFP-CU1G SFP Module (Copper Ethernet)
SFP-MM1GL SFP Module (Multi-mode Fibre)
SFP-MM1GC SFP Module (Multi-mode Fibre)
SFP-SM1G SFP Module (Single-mode Fibre)

Network Switches:

NETWORK-SWITCH-MM4 Multi-mode Secure Loop Switch (2*Fibre, 2*RJ45)
NETWORK-SWITCH-SM4 Single-mode Secure Loop Switch (2*Fibre, 2*RJ45)
NETWORK-SWITCH-MM8 Multi-mode Secure Loop Switch (2*Fibre, 6*RJ45)
NETWORK-SWITCH-SM8 Single-mode Secure Loop Switch (2*Fibre, 6*RJ45)
NETWORK-SWITCH-NF8 Secure Loop Switch (8*RJ45)
NETWORK-SWITCH-LP01 Network Loop Switch (2*SFP, 8*RJ45)

Adaptors:

BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations
BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

V2000 Amplifier Frame: V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

D500 Amplifier Module 500W
D150 Amplifier Module 150W

Amplifier interfaces for V2000 mainframe:

LSZDC Dual Line surveillance interface
V2000-STBY V2000 Standby Interface

V400 Amplifier frame: V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

M series amplifiers:

M100 Amplifier Module 100W
M200 Amplifier Module 200W
M400 Amplifier Module 400W

Amplifier interfaces for V400 mainframe:

LSDDC Dual Line Surveillance Interface
SSINT Standby Surveillance interface

Certificated Products

**LPCB Ref.
No.**

X400 Amplifier frame: X400 Amplifier frame for housing MX series amplifiers

MX series amplifiers:

MX100 Amplifier Module 100W - MX Series
MX200 Amplifier Module 200W - MX Series
MX400 Amplifier Module 400W - MX Series

Power supply:

BPC65 Battery Charger with Mounting Tray - 65Ah - Inc. Cables and Breakers
BPC75 Battery Charger with Mounting Tray - 75Ah - Inc. Cables and Breakers
BPC130 Battery Charger with Mounting Tray - 130Ah - Inc. Cables and Breakers

Optional modules:

BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit
EAP01 Emergency access point - All call emergency microphone
EMS01 (MK2) Emergency microphone station - All call
EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EMS10 Emergency microphone station - 10 Button
EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EMS20 Emergency microphone station - 20 Button
EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EMS30 Emergency microphone station - 30 Button
EMS40 Emergency microphone station - 40 Button
EMS50 Emergency microphone station - 50 Button
EMX30 Expansion module for EMS20 - 30 Button

MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
MPS30-F Desk paging and emergency microphone - 30 Button Fist mic
MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic
MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic
MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
MPX10 Microphone expansion module for MPS01 - 10 Button
MPS01-MB Wall mount bracket kit for MPS01
MPX10-MB Wall mount bracket kit for MPS10 - MPS20

Certified with the following options with requirements from EN 54 Part 16:

7.6.2 Manual silencing of voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.9 Voice alarm condition output
8.3 Indication of faults related to the transmission path to the CIE
8.4 Indication of faults related to voice alarm zones
10 Voice Alarm Manual control (Except on VAR routers)
12 Emergency microphone(s)
13.14 Redundant power amplifiers

INTEGRA

ASL Wall Mounting VACIE

1043a/02

Incorporating the following:

INTEGRA All-in-one Wall Mount Voice Alarm System for D Series amplifiers and amplifier interfaces OR
INTEGRA-PRO All-in-one Wall Mount Voice Alarm System for D Series amplifiers and amplifier interfaces with Dante DSP Audio Processor (consists of INTEGRA and VIPEDIA-PRO)

D Series amplifiers:

D500 Amplifier Module 500W
D150 Amplifier Module 150W

Amplifier interfaces:

LSZDC Dual Line surveillance interface

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

V2000-STBY V2000 Standby Interface

Optional modules:

BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit
BOA01 RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations
BOA02 RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through
VIPEDIA-NET Vipedia-12 Network Card
VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS
VIPEDIA-PRO VIPEDIA-12 Network Card with Dante DSP Audio Processor

SFP Optional Modules:

SFP-CU1G SFP Module (Copper Ethernet)
SFP-MM1GL SFP Module (Multi-mode Fibre)
SFP-MM1GC SFP Module (Multi-mode Fibre)
SFP-SM1G SFP Module (Single-mode Fibre)

Optional Network Switches:

NETWORK-SWITCH-MM4 Multi-mode Secure Loop Switch (2*Fibre, 2*RJ45)
NETWORK-SWITCH-SM4 Single-mode Secure Loop Switch (2*Fibre, 2*RJ45)
NETWORK-SWITCH-MM8 Multi-mode Secure Loop Switch (2*Fibre, 6*RJ45)
NETWORK-SWITCH-SM8 Single-mode Secure Loop Switch (2*Fibre, 6*RJ45)
NETWORK-SWITCH-NF8 Secure Loop Switch (8*RJ45)
NETWORK-SWITCH-LP01 Network Loop Switch (2*SFP, 8*RJ45)

Optional Emergency Microphones:

EAP01 Emergency access point - All call emergency microphone
EMS01 (MK2) Emergency microphone station - All call
EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EMS10 Emergency microphone station - 10 Button
EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EMS20 Emergency microphone station - 20 Button
EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EMS30 Emergency microphone station - 30 Button
EMS40 Emergency microphone station - 40 Button
EMS50 Emergency microphone station - 50 Button
EMX30 Expansion module for EMS20 - 30 Button
MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
MPS30-F Desk paging and emergency microphone - 30 Button Fist mic
MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic
MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic
MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
MPX10 Microphone expansion module for MPS01 - 10 Button
MPS01-MB Wall mount bracket kit for MPS01
MPX10-MB Wall mount bracket kit for MPS10 - MPS20

Certified with the following options with requirements from EN 54 Part 16:

7.6.2 Manual silencing of voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.9 Voice alarm condition output
8.3 Indication of faults related to the transmission path to the CIE
8.4 Indication of faults related to voice alarm zones
10.0 Voice Alarm Manual control
12.0 Emergency microphone(s)
13.14 Redundant power amplifiers

Aras Security B.V

Thomas Edisonweg 5, DH Drunen 5151, The Netherlands
Tel: 01633 628 558
E-mail: info@aras.nl

Certificate No: 378p-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and Indicating Equipment

Certificated Products

FIRAS2000 Intelligent Analogue Addressable 2 and 4 Loop Control and Indicating Equipment
Incorporating the following units:
ADF6 Back Assembled back box
YPCB2153 Motherboard PCB
YPCB2147 PSU PCB
YPCB2148 2 Loop Card (2 off)
ADF6Screen Touch Screen
YPCB2185 Complete Display + Micro PCB
ADF6 DISPCOVER Display PCB Cover
ADF6FACIA Front Moulding
ADF6PRINTDOOR Printer Door Moulding
BAT-NP12-12 Batteries (2 off)
ADF6HINGE Door Hinges
ADF6OPFACIA Optional Anti Tamper Cover
ADF6PRINTER Printer
YPCB2187 Fire Brigade Interface

**LPCB Ref.
No.**
378p/01

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment (Type A)
7.10.2 Output to automatic fire protection equipment (Type B)
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal (Type C)
7.13 Alarm counter
8.9 Output to fault warning routing equipment
9.5 Disablement of each address point
10 Test condition

Notes:

1. The scope of approval does not include the network functionality.
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ASENWARE LTD

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Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426g-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

AW-FP300 Single Loop Analogue Addressable Fire Alarm Control Panel
Incorporating the following modules:
SEC3002_IO IO Board
SEC3002_B Monitoring Board (B Board)
ZB-9100-A Main CPU Board (A Board)
PSE10_KZ Power Supply
SEC3002_QK Zone Indication Board
SEC3002_KEY Key Board

**LPCB Ref.
No.**
1426g/01

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

SEC3002_FL1 Loop SPU Board

Incorporating the following optional modules:

SEC3002_COM Communication Board

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices

7.10.1 Output type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disabling of addressable point

10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

2. Scope of approval does not include the operation of the network functionality.

LPCB Ref.
No.

Baldwin Boxall Communications Ltd

Baldwin Boxall Communications Ltd, Wealden Industrial Est., Farningham Road, Jarvis Brook, Crowborough, East Sussex TN6 2JR, United Kingdom

Tel: 01892 664422

Certificate No: 1292a to EN 54-4:1997 + A1:2002 + A2:2006 & EN 54-16:2008

Control and indicating equipment

Certificated Products

Vigil 2 Rack Mounted
VACIE

Vigil 2 Rack Mounted Networked Voice Alarm Control and Indicating Equipment

LPCB Ref.
No.
1292a/01

BFM01RM Single Zone Rack Mount Fire Mic (1U) C/W BVRDIF2
BFM401 400 Series Fire Mic. Single Zone
BFM404 400 Series Fire Mic 4 Zone
BFM408 400 Series Fire Mic 8 Zone
BMS8 Mic I/F Box RJ45 (BDM400 Series)
BV050Q Vigil 2 50 Watt Quad Amplifier
BV125D Vigil 125W Dual Amp
BV225 Vigil 225W Amp
BVRD2M DSP Controlled Voice Alarm Routing Matrix
BVRD2M4 DSP VA Mini Router (4 Channel)
BVRD2M4ACO Amp/Line Monitor & Changeover Module for BVRD2M4
BVRD2S DSP Controlled Voice Alarm Slave Router Unit
BVRD2SLT DSP Controlled Voice Alarm Mini Slave Unit
BVRD8 Voice Alarm Mic 8 Zone
BVRD16 Voice Alarm Mic 16 Zone
BVRD24 Voice Alarm Mic 24 Zone
BVRD32 Voice Alarm Mic 32 Zone
BVRD40 Voice Alarm Mic 40 Zone
BVRD48 Voice Alarm Mic 48 Zone
BVRD56 Voice Alarm Mic 56 Zone
BVRD64 Voice Alarm Mic 64 Zone
BVRDCI Control Input Interface Card
BVRDCIF Copper Interface for BVRDNET
BVRDFIF Fibre Optic Interface for BVRDNET (Multi Mode)
BVRDFIFS Fibre Optic Interface for BVRDNET (Single Mode)
BVRDFPI Fire Panel Interface
BVRDIF1 Aux/Music Input Interface for EVAS racks
BVRDIF2 Mic I/P Interface for EVAS Racks
BVRDIF3 Data Mic I/P Interface for EVAS Racks
BVRDNET BVRD2M Network Card
BVRDNET2M4 BVRD2M4 Network Card
BVSMP Vigil 2 PSU/Charger Dual O/P
BVSMPLT Vigil 2 PSU/Charger Single O/P
BVLAM Impedance monitor
BVRDNCO Amp/Line Monitor (No Changeover)
BVRDACO Amp/Line Monitor (Automatic Changeover)
BVRDADC EVAS DC Line Monitor
BVRDADIM Master DC Line Monitor/Isolator/Changeover Module

Certificated Products

**LPCB Ref.
No.**

BVRDADIS Slave DC Line Monitor/Isolator/Changeover Module
Certified with the following options with requirements from EN 54-16:
7.5 Phased evacuation
8.4 Indication of faults related to voice alarm zones
10. Voice alarm manual control
12 Emergency microphone(s)
13.14 Redundant power amplifiers

Notes:

1. The Vigil 2 rack mount VACIE is approved when connected with the following monitoring modules
BEL1 EOL Monitor
BEL10 EOL Monitor x 10
BEL1IP EOL Monitor (Weatherproof)
2. The VACIE speaker lines are monitored by use of the following modules namely BEL1, BEL10, BEL1IP in combination with a BVRDNCO or BVRDACO, or via a BVLAM, BVRDADC or BVRDADIM / BVRDADIS.
3. The VACIE was tested when connected to BVRAMB / BVRAMBIP Ambient Noise Sensing Microphone.
4. The following cabinets have been approved for use with Vigil 2 Rack Mounted VACIE when modified by Baldwin Boxall to meet IP30:-
RK20UN
RK20UDN
RK25UN
RK25UDN
RK34UN
RK34UDN
RK38UN
RK38UDN
RK43UN
RK43UDN
RK47UN
RK47UDN

This certificate is valid only when the installation has been performed in accordance with the Vigil 2 Rack Mount VACIE EN54 System Design and Build Requirements LPCB.
Vigil 2 Wall Mounting Networked Voice Alarm Control and Indicating Equipment

Vigil 2 Eclipse 3 Wall Mounted VACIE

1292a/02

BVECASE3 Eclipse3 c/w BVRD2M4 & BVL4
BVECASE3FM Eclipse3 Fire Microphone Module (Red)
BFM401 400 Series Fire Mic. Single Zone
BFM404 400 Series Fire Mic 4 Zone
BFM408 400 Series Fire Mic 8 Zone
BMS8 Mic I/F Box RJ45 (BDM400 Series)
BV050Q Vigil 2 50 Watt Quad Amplifier
BV125D Vigil 125W Dual Amp
BV225 Vigil 225W Amp
BVRD2M4 DSP VA Mini Router (4 Channel)
BVRD2M4ACO Amp/Line Monitor & Changeover Module for BVRD2M4
BVRD8 Voice Alarm Mic 8 Zone
BVRD16 Voice Alarm Mic 16 Zone
BVRD24 Voice Alarm Mic 24 Zone
BVRD32 Voice Alarm Mic 32 Zone
BVRD40 Voice Alarm Mic 40 Zone
BVRD48 Voice Alarm Mic 48 Zone
BVRD56 Voice Alarm Mic 56 Zone
BVRD64 Voice Alarm Mic 64 Zone
BVRDCIF Copper Interface for BVRDNET
BVRDFIF Fibre Optic Interface for BVRDNET (Multi Mode)
BVRDFIFS Fibre Optic Interface for BVRDNET (Single Mode)
BVRDNET2M4 BVRD2M4 Network Card
BVSMP Vigil 2 PSU/Charger Dual O/P
BVSMP1T Vigil 2 PSU/Charger Single O/P
Certified with the following options with requirements from EN 54-16:
7.5 Phased evacuation
8.4 Indication of faults related to voice alarm zones
10. Voice alarm manual control
12 Emergency microphone(s)
13.14 Redundant power amplifiers

Notes:

1. The Vigil 2 Eclipse 3 Wall Mounted VACIE is approved when connected with the following monitoring modules

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

BEL1	EOL Monitor
BEL10	EOL Monitor x 10
BEL1IP	EOL Monitor (Weatherproof)
2.	The VACIE speaker lines are monitored by use of the following modules namely BEL1, BEL10, or BEL1IP. The VACIE was tested when connected to BVRAMB / BVRAMBIP Ambient Noise Sensing Microphone.

Bardic by Honeywell (Novar Systems Ltd)

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Website: www.bardic.co.uk

Beijing Leader Huaxin Electronics Co. Ltd

No. 17 Rongjing Eastern Road, Economy & Technology Developed Area, Beijing 100176, China

Tel: +86 10 67876681 • Fax: +86 10 67863972

E-mail: hy.chen@beijingleader.com.cn • Website: www.beijingleader.com.cn

Certificate No: 987b to EN 54-2: 1997+A1:2006EN 54-4:1997+A1:2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**
987b/01

JB-QB-LD198EL-E	Two loop analogue addressable control and indicating equipment <i>Incorporating the units:</i> 200087-AU-1 CPU board 200101-AD-1 Main board 200101-AG-1 Multi-functional board 200101-AK-1 Linkage control board 200101-AP-1 Switch board 200101-AQ-1 Drive board 200101-AX-1 Zone indication board 200101-PS2 Power control board PDF-150-24 Switching power supply
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Certified with the following options with requirements from EN 54-2: 1997

7.8	Output to fire alarm devices
7.10.3	Output to fire protection equipment - Output type A
7.12.3	Dependencies on more than one alarm signal (Type C dependency)
7.13	Alarm counter
8.3	Fault signals from points
9.5	Disabling of each address point
10	Test condition

Beijing VSAIL Fire Protection Equipment Co Ltd

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E-mail: erichenx@vsail.com.cn • Website: www.vsail.com.cn

Certificate No: 1174e to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 1174j to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment
Certificated Products

LPCB Ref.
No.
1174e/01

VC-6831/16 16 Zone Conventional control and indicating equipment

Incorporating the following units:

VSL2.908.004	16 Zone Control Board
VSL2.908.007	16 Zone Display Board
PD-100-24	AC/DC Power Supply Module
VSL2.908.005	16 Zone Signal Output Board

Certified with the following Options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.11	Delay to outputs
10	Test condition

Note:

1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

VC-6831/8 8 Zone Conventional control and indicating equipment

1174e/02

Incorporating the following units:

VSL2.908.042	8 Zone Control Board
VSL2.908.043	8 Zone Display Board
PD-100-24	AC/DC Power Supply Module

Certified with the following Options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.11	Delay to outputs
10	Test condition

Note:

1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

VC-6831/4 4 Zone Conventional control and indicating equipment

1174e/03

Incorporating the following units:

VSL2.908.044	4 Zone Control Board
VSL2.908.045	4 Zone Display Board
PD-100-24	AC/DC Power Supply Module

Certified with the following Options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.11	Delay to outputs
10	Test condition

Note:

1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

VC-6831/2 2 Zone Conventional control and indicating equipment

1174e/04

Incorporating the following units:

VSL2.908.046	2 Zone Control Board
VSL2.908.047	2 Zone Display Board
PD-100-24	AC/DC Power Supply Module

Certified with the following Options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.11	Delay to outputs
10	Test condition

Note:

1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

VI-6847 4 Loop Analogue Addressable Control and Indicating Equipment

1174j/01

Incorporating the following modules:

VSL2.908.146	Main Board
VSL2.908.149	Indication board
VSL2.908.155	Terminal board
VSL2.908.162	Control Board
VSL2.908.153	Loop Card
VSL2.908.152	I/O Board
VSL2.908.169	Power Board
VSL7-820-150	Zone Board
VSL7-820-154	Network Card

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LRS-150-24 MEAN-WELL Power Supply module

**LPCB Ref.
No.**

Certified with the following option with requirements for EN54-2:

- 7.8 Output to fire alarm devices
- 7.10.1 Outputs to fire protection equipment (Type A)
- 7.10.2 Outputs to fire protection equipment (Type B)
- 7.10.3 Outputs to fire protection equipment (Type C)
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)
- 7.13 Alarm Counter
- 9.5 Disablement of addressable point
- 10 Test condition

Notes:

1. *The scope of the approval does not include the operation of the network functionality*
2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

Biamp Systems LLC

9300 S.W. Gemini Drive, Beaverton, Oregon 97008, USA

Tel: +1 503 718 9212 • Fax: +1 503 626 0281

Website: www.biamp.com

Certificate No: 977a-(cl-1) to EN 54-16: 2008

Certificated Products

Vocia VACIE

Incorporating the following modules:
LSI-16 / LSI-16e Life Safety Interface:
700.P630.9 LSI-16 / LSI-16e Main Board
700.P632.9 LSI-16 / LSI-16e Display Board
700.P675.9 IM-16 Input Module
700.P644.9 LSI-16 / LSI-16e Power Supply Board

CI-1 Control Interface
700.P669.9 CI-1 Main Board

GPIO-1 General Purpose Input Output Device
700.P806.9 GPO-1 Main Board
700.P807.9 IM-16-2 Input Board

VA-8600c Amplifier:
700.0646.9 VA-8600 AM-600c Amplifier Module
700.0601.9 VA-8600 NM-1 Network Module
700.0598.9 VA-8600 Back Plane Board
700.0599.9 VA-8600 Power Supply Board
700.0633.9 VA-8600 Capacitor Board
700.0629.9 VA-8600 AC Inlet Board
700.0602.9 VA-8600 Display Board
700.P662.9 VA-8600 Device ID Board
700.P800.9 VFOM-1 Voica Fail Over Module

VA-4030e Amplifier:
700.0675.9 VPA-1 Amplifier Module
700.0677.9 VSW-1 Transformer Switch Board
700.P680.9 VNM-1 Network Module
700.0687.9 VAS-1 Aux DC Power Supply
700.0672.9 EIC-4 Input Module
700.P681.9 VAD-1 Display Board

VA-4030 Amplifier:
700.0675.9 VPA-1 Amplifier Module

**LPCB Ref.
No.**
977a/01

Certificated Products

**LPCB Ref.
No.**

700.0677.9 VSW-1 Transformer Switch Board
700.P680.9 VNM-1 Network Module
700.P684.9 VAD-2 Display Board

VA-2060e Amplifier:
700.0676.9 VPA-2 Amplifier Module
700.0686.9 VSW-2 Transformer Switch Board
700.P680.9 VNM-1 Network Module
700.0687.9 VAS-1 Aux DC Power Supply
700.0689.9 EIC-2 Input Module
700.P685.9 VAD-3 Display Board

VA-2060 Amplifier:
700.0676.9 VPA-2 Amplifier Module
700.0686.9 VSW-2 Transformer Switch Board
700.P680.9 VNM-1 Network Module
700.P686.9 VAD-4 Display Board

VA-8150CV Amplifier:
700.P851.9 VAPM-1 Network Card
700.P827.9 VADM-1 Display Board
700.0791.9 VAM-2 Power Amplifier
700.0785.9 PCIe Riser Card
700.0788.9 Abletec Power Supply A

VA-4300CV Amplifier:
700.P851.9 VAPM-1 Network Card
700.P828.9 VADM-3 Display Board
700.0790.9 VAM-1 Power Amplifier
700.0785.9 PCIe Riser Card
700.0788.9 Abletec Power Supply A

EWS-4 Emergency Paging Microphone
700.P625.9 WS-4 Main Board
700.P676.9 WS-4 Switch Board

EWS-10 Emergency Paging Microphone
700.P725.9 WS-10 Main Board
700.P776.9 WS-10 Switch Board

Certified with the following options with requirements from EN 54-16:

- 7.3 Audible warning
- 7.5 Phased evacuation
- 7.9 Voice alarm condition output
- 8.3 Indication of faults related to the transmission path to the CIE
- 12 Emergency microphone
- 13.14 Redundant power amplifiers

Note: The certification is conditional upon the Vocia VACIE being supplied with power from power supplies that meet the specifications detailed in the Vocia VACIE Reference Guide, and comply with the requirements of EN 54-4.

Bosch Security Systems BV

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Certificate No: 1054a-(cl-1) to EN 54-16: 2008
Certificate No: C1054b-(cl-1) to EN 54-4:1997 + A1:2002 & EN 54-16: 2008
Certificate No: C1054b-(cl-2) to EN 54-4:1997 + A1:2002 & EN 54-16: 2008
Certificate No: 1054c-(cl-1) to ISO 7240-16:2007
Certificate No: 1054c-(cl-2) to ISO 7240-16:2007

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

PROMATRIX 8000

Voice Alarm System

Incorporating the following modules:

<i>DPM 8016</i>	<i>Controller</i>
<i>PMX-MM2</i>	<i>Message manager</i>
<i>DPM AO-1</i>	<i>Analog audio output module</i>
<i>DPM UI-1</i>	<i>Universal audio input module</i>
<i>DPA 8150</i>	<i>Power amplifier 1 x 500W</i>
<i>DPA 8225</i>	<i>Power amplifier 2 x 250W</i>
<i>DPA 8412</i>	<i>Power amplifier 4 x 125W</i>
<i>DPC 8015</i>	<i>Call station</i>
<i>DCS 400 DCS 19" Mounting Frame</i>	
<i>DCS 801R</i>	<i>Controller Module</i>
<i>DCS 407R</i>	<i>AF Relay Module Ext</i>
<i>DCS 408R</i>	<i>Loudspeaker relay Module</i>
<i>DCS 409R</i>	<i>AF Relay Module</i>
<i>DCS 412R</i>	<i>Logic Input Module</i>
<i>DCS 416R</i>	<i>Analog I/O Module</i>
<i>NRS90231</i>	<i>Key lock switch</i>
<i>EB DPC</i>	<i>Emergency button</i>
<i>DPC 8120</i>	<i>Call station extension</i>
<i>CM-1</i>	<i>Cobranet Network Module</i>
<i>LT802GBTME</i>	<i>Network switch</i>
<i>PLN-24CH12</i>	<i>Power Supply</i>

**LPCB Ref.
No.**
1054a/01

Certified with the following options with requirements from EN 54 Part 16:

- 7.3 Audible Warning*
- 7.5 Phase evacuation*
- 7.6.2 Manual silencing of the voice alarm condition*
- 7.7.2 Manual reset of the voice alarm condition*
- 7.9 Voice alarm condition output*
- 8.3 Indication of faults related to the transmission path to the CIE*
- 8.4 Indication of faults related to voice alarm zones*
- 10 Voice alarm manual control*
- 12 Emergency microphone(s)*
- 13.14 Redundant power amplifier*

Notes:

- 1. The certificate is conditional upon the PROMATRIX 8000 Voice Alarm System being supplied with power from PLN-24CH12 or a power supply that meets the power specifications detailed in the manual and complies with the requirements of EN54-4.*
- 2. The VACIE is approved when connected to PLN-1EOL or EOL 8001*
- 3. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL or EOL 8001.*
- 4. The following IP30 cabinets have been approved for use with PROMATRIX 8000:-*
 - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series).*
 - Schroff (20130073 PRAESIDEO)*
 - Diamond range of floor standing modular enclosures (Manufacturer E.Lan)*
 - Knuerr Miracel 2 configurable rack platforms (manufacturer Knürr GmbH)*
- 5. The DPC 8015 call station requires the NRS90231 and EB DPC in order to meet option with requirement clause 10 and 12 of EN 54-16.*
- 6. The DPC 8120 is approved when connected with DPC 8015 call station*

Certificated Products

LPCB Ref. No.

7. This certificate is valid only when the installation has been performed in accordance with the "EN54-16 Installer checklist".

8. The following SFP Modules have been approved for use with PROMATRIX 8000 when connected to the network switch LT-802GBTME:-

- AC-SFP-LX-E-10 Single mode 1310nm SFP Module
- AC-SFP-SX-E Multi-mode 850nm SFP Module

Dynacord / PROMATRIX 6000 VACIE Voice Alarm Control and Indicating Equipment 1054b/01

Incorporating the following modules:

PMX-4CR12	PROMATRIX 6000 Controller
PMX-4R24	PROMATRIX 6000 Router
PMX-2P500	PROMATRIX 6000 2x500 Watt Amp.
PMX-15CST	PROMATRIX 6000 Call Station
PMX-15ECS	PROMATRIX 6000 Call Station
PMX-20CSE	PROMATRIX 6000 Call Station Extension.
NRS90231	Key Lock Switch
EB DPC	Emergency button DPC 8000 Series
PLN-24CH12	Power Supply Module
OM-1	Network Module
LT-802GBTME	Network Switch

Certified with the following options with requirements from EN54-16:

7.3	Audible Warning
7.5	Phase evacuation
7.6.2	Manual silencing of the voice alarm condition
7.7.2	Manual reset of the voice alarm condition
7.9	Voice alarm condition output
8.3	Indication of faults related to the transmission path to the CIE
8.4	Indication of faults related to voice alarm zones
10	Voice alarm manual control
12	Emergency microphone(s)
13.14	Redundant power amplifier

Notes:

1. The VACIE is approved when connected to PLN-1EOL or EOL 8001 or with activated impedance measurement.
2. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL End Of Line Board, EOL 8001 PROMATRIX EOL Module or by impedance measurement.
3. The PVA-15CST call station requires the NRS90231 and EB DPC in order to meet option with requirement clause 10 and 12 of EN 54-16.
4. The PMX-20CSE is approved when connected with PMX-15CST call station
5. The following IP30 cabinets have been approved for use with Dynacord/Promatrix 6000:-
 - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series).
 - Schroff (20130073 PRAESIDEO)
 - Diamond 19 Inch Cabinet (Manufacturer: E.Lan)
 - Knuerr Miracel 2 (Manufacturer: Knürr GmbH)
6. The following SFP Modules have been approved for use with Dynacord/Promatrix 6000 when connected to the network switch LT-802GBTME:-
 - AC-SFP-LX-E-10 Single mode 1310nm SFP Module
 - AC-SFP-SX-E Multi-mode 850nm SFP Module

7. This certificate is valid only when the installation has been performed in accordance with the "EN54-16 Installer checklist".

Bosch / PAVIRO VACIE Voice Alarm Control and Indicating Equipment 1054b/02

Incorporating the following modules:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

<i>PVA-4CR12</i>	<i>PAVIRO Controller</i>
<i>PVA-4R24</i>	<i>PAVIRO Router</i>
<i>PVA-2P500</i>	<i>PAVIRO 2x500 W Amplifier</i>
<i>PVA-15CST</i>	<i>PAVIRO Call Station</i>
<i>PVA-15ECS</i>	<i>PAVIRO Call Station</i>
<i>PVA-20CSE</i>	<i>PAVIRO Call Station Extension</i>
<i>PVA-1KS</i>	<i>PAVIRO CST Key Switch</i>
<i>PVA-1EB</i>	<i>PAVIRO CST Emergency button</i>
<i>PLN-24CH12</i>	<i>Power Supply Module</i>
<i>OM-1</i>	<i>Network Module</i>
<i>LT-802GBTME</i>	<i>Network Switch</i>

Certified with the following options with requirements from EN54-16:

<i>7.3</i>	<i>Audible Warning</i>
<i>7.5</i>	<i>Phase evacuation</i>
<i>7.6.2</i>	<i>Manual silencing of the voice alarm condition</i>
<i>7.7.2</i>	<i>Manual reset of the voice alarm condition</i>
<i>7.9</i>	<i>Voice alarm condition output</i>
<i>8.3</i>	<i>Indication of faults related to the transmission path to the CIE</i>
<i>8.4</i>	<i>Indication of faults related to voice alarm zones</i>
<i>10</i>	<i>Voice alarm manual control</i>
<i>12</i>	<i>Emergency microphone(s)</i>
<i>13.14</i>	<i>Redundant power amplifier</i>

Notes:

- 1. The VACIE is approved when connected to PLN-1EOL or PVA-1WEOL end of line board or with activated impedance measurement.*
- 2. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL end of line board, PVA-1WEOL addressable end of line board or impedance measurement.*
- 3. The PVA-15CST call station requires the PVA-1KS and PVA-1EB in order to meet option with requirement clause 10 and 12 of EN 54-16.*
- 4. The PVA-20CSE is approved when connected with PVA-15CST call station*
- 5. The following IP30 cabinets have been approved for use with PAVIRO:-*
 - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series).*
 - Schroff (20130073 PRAESIDEO)*
 - Diamond 19 Inch Cabinet (Manufacturer: E.Lan)*
 - Knuerr Miracel 2 (Manufacturer: Knürr GmbH)*
- 6. The following SFP Modules have been approved for use with PAVIRO when connected to the network switch LT-802GBTME:-*
 - AC-SFP-LX-E-10 Single mode 1310nm SFP Module*
 - AC-SFP-SX-E Multi-mode 850nm SFP Module*
- 7. This certificate is valid only when the installation has been performed in accordance with the "EN54-16 Installer checklist".*

Dynacord / PROMATRIX
6000 VACIE

Voice Alarm Control and Indicating Equipment

1054c/01

Incorporating the following modules:

<i>PMX-15ECS</i>	<i>PROMATRIX 6000 Emergency Call Station</i>
<i>OM-1</i>	<i>Network Module</i>
<i>LT-802GBTME</i>	<i>Network Switch</i>
<i>PMX-4CR12</i>	<i>PROMATRIX 6000 Controller</i>
<i>PMX-4R24</i>	<i>PROMATRIX 6000 Router</i>
<i>PMX-2P500</i>	<i>PROMATRIX 6000 2x500 Watt Amp.</i>
<i>PMX-15CST</i>	<i>PROMATRIX 6000 Call Station</i>
<i>PMX-20CSE</i>	<i>PROMATRIX 6000 Call Station Extension.</i>
<i>NRS90231</i>	<i>Key Lock Switch</i>

Certificated Products

**LPCB Ref.
No.**

EB DPC Emergency button DPC 8000 Series
PLN-24CH12 Power Supply Module
OM-1 Network Module
LT-802GBTME Network Switch

Certified with the following options with requirements from ISO7420-16:

- 7.2 Alert signal*
- 7.5 Audible warning*
- 7.8.2 Silencing of the voice-alarm condition with a manual control*
- 7.9.2 Reset of the voice-alarm condition with a manual control*
- 7.11 Voice-alarm condition output signal*
- 8.2.6.1 Faults related to the transmission path to the emergency detection system*
- 8.2.6.2 Faults related to emergency loudspeaker zones*
- 11 Manual mode control*
- 11.3 Indication of the emergency loudspeaker zones in the fault-warning condition*
- 13 Emergency microphone*
- 13.2 Microphone priority*
- 13.3 Microphone emergency loudspeaker zone control*
- 14.14 Redundant power amplifiers*

Notes:

- 1. The VACIE is approved when connected to PLN-1EOL or EOL 8001 or with activated impedance measurement.*
- 2. The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL End Of Line Board, EOL 8001 PROMATRIX EOL Module or by impedance measurement.*
- 3. The PVA-15CST call station requires the NRS90231 and EB DPC in order to meet option with requirement clause 10 and 12 of EN 54-16.*
- 4. The PMX-20CSE is approved when connected with PMX-15CST call station*
- 5. The following IP30 cabinets have been approved for use with PROMATRIX 6000:-*
 - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series).*
 - Schroff (20130073 PRAESIDEO)*
 - Diamond 19 Inch Cabinet (Manufacturer: E.Lan)*
 - Knuerr Miracel 2 (Manufacturer: Knürr GmbH)*
- 6. The following SFP Modules have been approved for use with Dynacord/Promatrix 6000 when connected to the network switch LT-802GBTME:-*
 - AC-SFP-LX-E-10 Single mode 1310nm SFP Module*
 - AC-SFP-SX-E Multi-mode 850nm SFP Module*
- 7. This certificate is valid only when the installation has been performed in accordance with the "ISO7420-16 Installer checklist".*

Bosch / PAVIRO VACIE

Voice Alarm Control and Indicating Equipment
Incorporating the following modules:"
PVA-4CR12 PAVIRO Controller
PVA-4R24 PAVIRO Router
PVA-2P500 PAVIRO 2x500 W Amplifier
PVA-15CST PAVIRO Call Station
PVA-20CSE PAVIRO Call Station Extension
PVA-1KS Call Station Key Switch

1054c/02

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

PVA-1EB	PAVIRO Call Station Emergency button
PLN-24CH12	Power Supply Module
PVA-15ECS	PAVIRO Emergency Call Station
OM-1	Network Module
LT-802GBTME	Network Switch

Certified with the following options with requirements from ISO7420-16:

7.2	Alert signal
7.5	Audible warning
7.8.2	Silencing of the voice-alarm condition with a manual control
7.9.2	Reset of the voice-alarm condition with a manual control
7.11	Voice-alarm condition output signal
8.2.6.1	Faults related to the transmission path to the emergency detection system
8.2.6.2	Faults related to emergency loudspeaker zones
11	Manual mode control
11.3	Indication of the emergency loudspeaker zones in the fault-warning condition
13	Emergency microphone
13.2	Microphone priority
13.3	Microphone emergency loudspeaker zone control
14.14	Redundant power amplifiers

Notes:

1. *The VACIE is approved when connected to PLN-1EOL or PVA-1WEOL end of line board or with activated impedance measurement.*
2. *The VACIE speaker lines are monitored by use of end line modules namely PLN-1EOL end of line board, PVA-1WEOL addressable end of line board or impedance measurement.*
3. *The PVA-15CST call station requires the PVA-1KS and PVA-1EB in order to meet option with requirement clause 10 and 12 of ISO7420-16.*
4. *The PVA-20CSE is approved when connected with PVA-15CST call station*
5. *The following IP30 cabinets have been approved for use with PAVIRO:-*
 - Rittal TS8 based rack, with a lockable glass door, side panels, temperature controlled top fans and having a fixed frame with a maximum height of 42 HU (i.e. TS-IT series) or a lockable swing frame with a maximum height of 40 HU (i.e. TS-series).
 - Schroff (20130073 PRAESIDEO)
 - Diamond 19 Inch Cabinet (Manufacturer: E.Lan)
 - Knuerr Miracel 2 (Manufacturer: Knürr GmbH)
6. *The following SFP Modules have been approved for use with PAVIRO when connected to the network switch LT-802GBTME:-*
 - AC-SFP-LX-E-10 Single mode 1310nm SFP Module
 - AC-SFP-SX-E Multi-mode 850nm SFP Module.
7. *This certificate is valid only when the installation has been performed in accordance with the "ISO7420-16 Installer checklist".*

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Certificate No: 1174e-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 1330h-(cl-2) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.

B61-801/16	<p>16 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/01
B61-801/8	<p>8 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/02
B61-801/4	<p>4 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/03
B61-801/2	<p>2 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i></p>	1174e/04
IGN250	<p>1 to 4 loop Intelligent Addressable Control and Indicating Equipment <i>Incorporating the following modules:</i> 7010200004 TX7004 Mother Board 7020100022 TX7004 Main Board 7010700017 TX7004 Loop Board 7010400011 TX7004 Power Management Board 7010600019 TX7004 Communication Board 7010400012 TX7004 Power Wiring Board PDF-150-27.5 Power Supply Unit 7021300007 TX7004 Key Board 7020800009 TX7004 Led Board 7010300010 TX7004 Regional Display Board 814400002 TX6940E Printer Module</p> <p><i>Certified with the following options with requirements from EN54-2:</i> 7.8 Output to fire alarm device(s) 7.10.1 Output to fire protection equipment - Type A 7.11 Delays to outputs</p>	1330h/01

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.13 Alarm counter
9.5 Disabling of each address point
10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

Ceasefire Industries Private Ltd

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E-mail: amit@ceasefire.in

Certificate No: 810a-(cl-5) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**
810a/03

Pro-Sense TI-002306, TI-002307

Pro-Sense 2 and 4 Zone Conventional Control and Indicating Equipment

TI-002306

Incorporating as modular units:

TPC A01-E2 2 zone main PCB applicable on 2 zone CIE only
TPC A02 LED display PCB
PSM1.5-24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.12.1 Dependency on more than one alarm signal type A
10 Test condition

TI-002307

Incorporating as modular units:

TPC A01-E4 4 zone main PCB applicable on 4 zone CIE only
TPC A02 LED display PCB
PSM1.5-24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.12.1 Dependency on more than one alarm signal type A
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Pro-Sense TI-002310, TI-002311, TI-002312

16, 24 and 32 Zone Conventional Control and Indicating Equipment

810a/08

TI-002310 16 Zone Conventional Control Panel

Incorporating as modular units:
TPCA10 32 Zone LED display PCB
TPCA11-16 16 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules

TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

TI-002311 24 Zone Conventional Control Panel

Incorporating as modular units:

Certificated Products

**LPCB Ref.
No.**

TPCA10 32 Zone LED display PCB
TPCA11-24 24 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules
TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

TI-002312 32 Zone Conventional Control Panel

Incorporating as modular units:
TPCA10 32 Zone LED display PCB
TPCA11-32 32 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules
TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

Pro-Sense TI-002308

8 Zone Conventional Control and Indicating Equipment

810a/10

Incorporating as modular units:
TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Pro-Sense TI-002309

12 Zone Conventional Control and Indicating Equipment

810a/11

Incorporating as modular units:
TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-S XLEN Standard 4 Zone Extension Board
TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

**LPCB Ref.
No.**

CFP702-4/CHAN Two zone conventional control and indicating equipment

176b/07

Incorporating the units:

RPF0702005 Power supply PCB
SPF0724851 2 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997

- 7.8 Output to fire alarm devices(s)
- 7.11 Delays to outputs
- 10 Test condition

CFP704-4/CHAN Four zone conventional control and indicating equipment

176b/08

Incorporating the units:

RPF0702005 Power supply PCB
SPF0724853 4 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997

- 7.8 Output to fire alarm devices(s)
- 7.11 Delays to outputs
- 10 Test condition

CFP708-4/CHAN Eight zone conventional control and indicating equipment

176b/09

Incorporating the units:

RPF0702005 Power supply PCB
SPF0724855 8 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997

- 7.8 Output to fire alarm devices(s)
- 7.11 Delays to outputs
- 10 Test condition

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Certificate No: 1139h-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

ATENA	<p>ATENA - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, metal housing ATENA P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, plastic housing <i>Incorporating the following modular units:</i> <i>uPC Board Module uPC</i> <i>LCD Board Module LCD</i> <i>LED Board Module Light Panel includes boards uPC, LCD and LED</i> <i>Outputs Board Module Outputs</i> <i>Relay Board Module 4 Relay</i> <i>PSU Board Module Power supply</i> <i>Redundant Network Board Module Redundant Network</i> <i>Loop Comelit Board Loop Expander Comelit</i></p> <p><i>Certified with the following options with requirements from EN54-2:</i> <i>7.8 Output to fire alarm devices (option with requirements)</i> <i>7.9 Control of fire alarm routing equipment (options with requirements)</i> <i>7.9.1 Output to fire alarm routing equipment (option with requirements)</i> <i>7.10 Outputs to fire protection equipment (options with requirements)</i> <i>7.10.1 Output type A (option with requirement)</i> <i>7.11 Delays to outputs (option with requirements)</i> <i>7.12 Dependencies on more than one alarm signal (option with requirements)</i> <i>7.12.1 Type A dependency (option with requirement)</i> <i>8.3 Fault signals from points (option with requirements)</i> <i>9.5 Disabling of addressable point (option with requirements)</i> <i>10 Test condition (option with requirements)</i></p> <p><i>Notes:</i> <i>1. The scope of the approval does not include the operation of the network functionality</i> <i>2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.</i></p>	1139h/01
ATENA Repeater	<p>ATENA Repeater - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel - Repeater, metal housing ATENA Repeater P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel - Repeater, plastic housing Approved for use with the ATENA Intelligent Analogue Addressable Interactive Fire Alarm Control Panel <i>Incorporating the following modules:</i> <i>uPC Board Module uPC</i> <i>LCD Board Module LCD</i> <i>LED Board Module Light Panel includes boards uPC, LCD and LED</i> <i>PSU Board Module Power supply</i> <i>Redundant Network Board Module Redundant Network</i></p>	1139h/R01

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Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

XFP502/H	<p>2 loop, 32 zone analogue addressable control and indicating equipment using Hochiki Protocol, metal housing</p> <p>Incorporating the following units: SPF0501000 Switch mode power supply board SPF0501202 XFP Hochiki 2 loop, main motherboard SPF0501200 Display board "keypad display"</p> <p>Optional language variants; XFP502/H/NL Dutch language variant</p> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <p>7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p>Notes: 1. <i>Scope of approval does not include the operation of the network functionality .</i></p>	176b/01
XFP502/X	<p>2 Loop, 32 zone analogue addressable control and indicating equipment using Apollo Protocol, metal housing</p> <p>Incorporating the following units: SPF0501000 Switch mode power supply board SPF0501201 XFP Apollo 2 loop, main motherboard SPF0501200 Display board "Keypad display"</p> <p>Optional language variants; XFP502/X/ES Spanish language variant XFP502/X/FR French language variant XFP502/X/PORT Portuguese language variant XFP502/X/NL Dutch language variant XFP502/X/CZ Czech language variant</p> <p>Certified with the following options with requirements from EN54-2: 1997</p> <p>7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p>Notes: 1. <i>Scope of approval does not include the operation of the network functionality.</i></p>	176b/02
XFP501/H	<p>1 Loop, 32 zone analogue addressable control and indicating equipment using Hochiki Protocol, metal housing</p> <p>Incorporating the following units: SPF0501000 Switch mode power supply board SPF0501212 XFP Hochiki 1 loop, main motherboard SPF0501200 Display board "Keypad display"</p> <p>Optional language variants; XFP501/H/NL Dutch language variant</p> <p>Certified with the following options with requirements from EN54-2: 1997</p> <p>7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter</p>	176b/03

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p><i>Notes:</i> 1. <i>Scope of approval does not include the operation of the network functionality.</i></p> <p>XFP501/X 1 Loop, 32 zone analogue addressable control and indicating equipment using Apollo Protocol, metal housing</p> <p>Incorporating the following units: SPF0501000 Switch mode power supply board SPF0501211 XFP Apollo 1 loop, main motherboard SPF0501200 Display board "keypad display"</p> <p>Optional language variants; XFP501/X/ES Spanish language variant XFP501/X/FR French language variant XFP501/X/PORT Portuguese language variant XFP501/X/NL Dutch language variant XFP501/X/CZ Czech language variant</p> <p>Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p><i>Notes:</i> 1. <i>Scope of approval does not include the operation of the network functionality.</i></p> <p>XFP501E/H 1 Loop, 16 zone analogue addressable control and indicating equipment using Hochiki protocol, plastic housing</p> <p>Incorporating the following units: SPF0702480 Switch mode power supply board SPF0501102 XFP Hochiki 1 loop, main motherboard</p> <p>Optional language variants; XFP501E/H/NL Dutch language variant</p> <p>Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p><i>Notes:</i> 1. <i>Scope of approval does not include the operation of the network functionality.</i></p> <p>XFP501E/X 1 Loop, 16 zone analogue addressable control and indicating equipment using Apollo Protocol, plastic housing</p> <p>Incorporating the following units: SPF0702480 Switch mode power supply board SPF0501101 XFP Apollo 1 loop, main motherboard</p> <p>Optional language variants; XFP501E/X/ES Spanish language variant XFP501E/X/FR French language variant XFP501E/X/PORT Portuguese language variant XFP501E/X/NL Dutch language variant XFP501E/X/CZ Czech language variant</p> <p>Certified with the following options with requirements from EN54-2: 1997 7.8 Output to fire alarm device(s)</p>	<p>176b/04</p> <p>176b/05</p> <p>176b/06</p>

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	7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	9.5 Disabling of each address point	
	10 Test condition	
	<i>Notes:</i>	
CFP702-4	1. <i>Scope of approval does not include the operation of the network functionality</i> Two zone conventional control and indicating equipment	176b/07
	Optional language variants; CFP702-4/DE German language variant CFP702-4/ES Spanish language variant CFP702-4/FR French language variant CFP702-4/ICE Icelandic language variant CFP702-4/PORT Portuguese language variant CFP702-4/NL Dutch language variant CFP702-4/CZ Czech language variant CFP702-4/CH Chinese language variant	
	Optional colour variant; CFP702-4/R Red Box	
	Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724851 2 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP704-4	Four zone conventional control and indicating equipment	176b/08
	Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board	
	Optional language variants; CFP704-4/DE German language variant CFP704-4/ES Spanish language variant CFP704-4/FR French language variant CFP704-4/ICE Icelandic language variant CFP704-4/PORT Portuguese language variant CFP704-4/NL Dutch language variant CFP704-4/CZ Czech language variant CFP704-4/CH Chinese language variant	
	Optional colour variant; CFP704-4/R Red Box	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	
CFP708-4	Eight zone conventional control and indicating equipment	176b/09
	Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724855 8 Zone main control board	
	Optional language variants; CFP708-4/DE German language variant CFP708-4/ES Spanish language variant CFP708-4/FR French language variant CFP708-4/ICE Icelandic language variant	

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
CFP708-4/PORT Portuguese language variant CFP708-4/NL Dutch language variant CFP708-4/CZ Czech language variant CFP708-4/CH Chinese language variant	
Optional colour variant; CFP708-4/R Red Box	
CFP702-2 Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Alarmsense two zone conventional control and indication equipment	176b/14
Incorporating the following units: SPF0702480 Switch mode power supply unit board SPF0724851 2 Zone main control board	
CFP704-2 Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Alarmsense four zone conventional control and indicating equipment	176b/15
Incorporating the following units: SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board	
CFP708-2 Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Alarmsense eight zone conventional control and indicating equipment	176b/16
Incorporating the following units: SPF0702480 Switch mode power supply unit board SPF0724855 8 Zone main control board	
CFP702E-4 Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition Two zone conventional control and indicating equipment	176b/17
Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724851 2 Zone main control board	
CFP704E-4 Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs Four zone conventional control and indicating equipment	176b/18
Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board	
CFP708E-4 Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs Eight zone conventional control and indicating equipment	176b/19
Incorporating the units: SPF0702480 Switch mode power supply unit board SPF0724855 8 Zone main control board	
XFP501E/CA Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 1 Loop 16 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, plastic housing	176b/26

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Incorporating the following modules:

SPF0050127 1 Loop Main board
SPF0702025 Switch mode power supply board

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disablement of addressable points
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

XFP501/CA

1 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, metal housing

176b/27

Incorporating the following modules:

SPF0050110 1 Loop Main board
SPF0501021 Switch mode power supply board
SPF0501199 Display Board

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disablement of addressable points
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

XFP502/CA

2 Loop 32 Zone Analogue Addressable Control and Indicating Equipment using CAST protocol, metal housing

176b/28

Incorporating the following modules:

SPF0050210 2 Loop Main board
SPF0501021 Switch mode power supply board
SPF0501199 Display Board

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disablement of addressable points
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

Certificate No: 176c to EN 12094-1: 2003 and EN 54-2: 1997 + A1: 2006 + A2: 2007, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref. No.
176c/01

EP203 Conventional three zone class A extinguisher control panel

Incorporating the following units:

SPF0000203	Main extinguisher control
SPF0000212	External relay interface
SPF0003613	Power supply unit
SPF0000214	EP214 terminator

Incorporating as modular units:

EP210S	Remote Status Unit Surface Mount optional (See Note 1)
EP211	Economy Status Unit optional (See Note 1)

Optional language variants;

EP203/ES	Spanish language variant
EP203/FR	French language variant
EP203/IT	Italian language variant
EP203/DE	German language variant

Certified with the following options with requirements from EN 12094-1:2003

4.17	Delay of extinguishing signal
4.18	Signal representing the flow of extinguishing agent
4.19	Monitoring of the status of components
4.20	Emergency hold device
4.21	Control of flooding time
4.23	Manual only mode
4.26	Triggering of equipment outside the system
4.27	Emergency abort device
4.30	Activation of alarm devices with different signals

Certified with the following options with requirements from EN-54-2:1997

7.8	Output to fire alarm device(s)
7.11	Delays to the actioning of outputs fire alarm devices and fire routing equipment
7.13	Alarm counter
10	Test condition

Notes:

1. *Optional Remote Status Unit part No. EP210S & Economy Status Unit part No. EP211 are not certified as meeting the requirements of the standards specified.*
2. *Meets the requirements of EN12094-3:2003, Class A - i.e. operational temperature range of -5°C to +40°C.*

Certificate No: 176p to EN54-4: 1997 + A1: 2002 + A2: 2006

Power Supply Equipment

Certificated Products

LPCB Ref. No.
176p/01

BF560-12 12V, 2A Boxed Power Supply Plastic Housing with 7Ah battery

*Incorporating the following units:
SPF5601204 - Power supply module
SPF0360000 - Display module*

Note:

1. *The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*

BF560-24 24V, 1.5A Boxed Power Supply Plastic Housing with 3.2Ah batteries

176p/02

*Incorporating the following units:
SPF5602402 - Power supply module
SPF0360010 - Display module*

Note:

1. *The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment*

BF562-1 24V, 1.5A Boxed Power Supply Metal Housing with 17Ah batteries

176p/03

*Incorporating the following units:
SPF5602402 - Power supply module
SPF0003610 - Display module*

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CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
NT560-12/E	<p><i>Note:</i> 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment 12V, 2A Boxed Power Supply Metal Housing with 12Ah Battery Incorporating the following units: SPF5601204 - Power supply module</p>	176p/04
BF562-5	<p><i>Note:</i> 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment 24V, 5A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF0361020 - Power supply module SPF0003610 - Display module</p> <p><i>Note:</i> 1. 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment</p>	176p/05
BF562-3	<p>24V, 3A Boxed Power Supply Metal Housing with 17Ah batteries Incorporating the following units: SPF0361020 - Power supply module SPF0003610 - Display module</p> <p><i>Note:</i> 1. 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment</p>	176p/06
NC560-12/E	<p>12V, 2A Boxed Power Supply Metal Housing with 12Ah Battery Incorporating the following units: SPF5601204 - Power supply module</p> <p><i>Note:</i> 1. The unit is not intended to supply power to equipment that requires dual power paths such as control and indicating equipment</p>	176p/07

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Certificate No: 176b-(cl-2) to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1 :2002 + A2:2006

Certificate No: 176c-(cl-2) to EN 54-2: 1997 + A1: 2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.																						
XFP502/X/CON	<p>Two Loop, 32 Zone Analogue addressable control and indicating equipment using Apollo Protocol, Metal housing</p> <p>Incorporating the following units:</p> <table><tbody><tr><td>SPF0501000</td><td>Switch mode power supply board</td></tr><tr><td>SPF0501201</td><td>XFP Apollo 2 Loop, Main motherboard</td></tr><tr><td>SPF0501200</td><td>Display board Keypad Display</td></tr></tbody></table> <p>Certified with the following options with requirements from EN 54-2:1997</p> <table><tbody><tr><td>7.8</td><td>Output to fire alarm device(s)</td></tr><tr><td>7.11</td><td>Delays to the actioning of outputs fire alarm devices and fire routing equipment</td></tr><tr><td>7.12.1</td><td>Dependencies on more than one alarm signal - Type A</td></tr><tr><td>7.12.2</td><td>Dependencies on more than one alarm signal - Type B</td></tr><tr><td>7.12.3</td><td>Dependencies on more than one alarm signal - Type C</td></tr><tr><td>7.13</td><td>Alarm counter</td></tr><tr><td>8.3</td><td>Fault signals from points</td></tr><tr><td>9.5</td><td>Disablement of each address point</td></tr></tbody></table>	SPF0501000	Switch mode power supply board	SPF0501201	XFP Apollo 2 Loop, Main motherboard	SPF0501200	Display board Keypad Display	7.8	Output to fire alarm device(s)	7.11	Delays to the actioning of outputs fire alarm devices and fire routing equipment	7.12.1	Dependencies on more than one alarm signal - Type A	7.12.2	Dependencies on more than one alarm signal - Type B	7.12.3	Dependencies on more than one alarm signal - Type C	7.13	Alarm counter	8.3	Fault signals from points	9.5	Disablement of each address point	176b/02
SPF0501000	Switch mode power supply board																							
SPF0501201	XFP Apollo 2 Loop, Main motherboard																							
SPF0501200	Display board Keypad Display																							
7.8	Output to fire alarm device(s)																							
7.11	Delays to the actioning of outputs fire alarm devices and fire routing equipment																							
7.12.1	Dependencies on more than one alarm signal - Type A																							
7.12.2	Dependencies on more than one alarm signal - Type B																							
7.12.3	Dependencies on more than one alarm signal - Type C																							
7.13	Alarm counter																							
8.3	Fault signals from points																							
9.5	Disablement of each address point																							

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>10 Test condition</p> <p><i>Note :</i></p> <p>1. <i>Scope of approval does not include the operation of the network functionality.</i></p> <p>XFP501/X/CON One Loop, 32 Zone Analogue addressable control and indicating equipment using Apollo Protocol, Metal housing</p> <p>Incorporating the following units:</p> <p>SPF0501000 Switch mode power supply board SPF0501211 XFP Apollo 1 Loop, Main motherboard SPF0501200 Display board Keypad Display</p> <p>Certified with the following options with requirements from EN 54-2:1997</p> <p>7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p><i>Note:</i></p> <p>1. <i>Scope of approval does not include the operation of the network functionality.</i></p>	<p>176b/04</p>
<p>XFP501E/X/CON One Loop, 16 Zone Analogue addressable control and indicating equipment using Apollo protocol, Plastic housing</p> <p>Incorporating the following units:</p> <p>SPF0702480 Switch mode power supply board SPF0501101 XFP Apollo 1 Loop, Main motherboard</p> <p>Certified with the following options with requirements from EN 54-2:1997</p> <p>7.8 Output to fire alarm device(s) 7.11 Delays to the actioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p><i>Note:</i></p> <p>1. <i>Scope of approval does not include the operation of the network functionality.</i></p>	<p>176b/06</p>
<p>CFP702-4/CON Two zone conventional control and indicating equipment</p> <p>Incorporating the units:</p> <p>SPF0702480 Switch mode power supply unit board SPF0724851 2 Zone main control board</p> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <p>7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition</p>	<p>176b/07</p>
<p>CFP704-4/CON Four zone conventional control and indicating equipment</p> <p>Incorporating the units:</p> <p>SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board</p> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <p>7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition</p>	<p>176b/08</p>
<p>CFP708-4/CON Eight zone conventional control and indicating equipment</p> <p>Incorporating the units:</p>	<p>176b/09</p>

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

SPF0702480 Switch mode power supply unit board
SPF0724855 8 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices(s)
7.11 Delays to outputs
10 Test condition

EP203/CON

Conventional three zone class A extinguisher control panel under Context Plus Brand

176c/01

Incorporating the following units:

SPF0000203 Main extinguisher control
SPF0000212 External relay interface
SPF0003613 Power supply unit
SPF0000214 EP214 terminator

Incorporating as modular units:

EP210S Remote Status Unit Surface Mount optional (See Note 1)
EP211 Economy Status Unit optional (See Note 1)

Certified with the following options with requirements from EN 12094-1:2003

4.17 Delay of extinguishing signal
4.18 Signal representing the flow of extinguishing agent
4.19 Monitoring of the status of components
4.20 Emergency hold device
4.21 Control of flooding time
4.23 Manual only mode
4.26 Triggering of equipment outside the system
4.27 Emergency abort device
4.30 Activation of alarm devices with different signals

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.11 Delays to the auctioning of outputs fire alarm devices
and fire routing equipment
7.13 Alarm counter
10 Test condition

Note:

1. *Optional Remote Status Unit part No. EP210S & Economy Status Unit part No. EP211 are not certified meeting the requirements of the standards specified*
2. *Meets the requirements of EN12094-3:2003, Class A - i.e. operational temperature range of -5°C to +40°C.*

DEF

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Certificate No: 1548a-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products

LPCB Ref.
No.

LEONIS A

1-2 Loop Analogue Addressable Control and Indicating Equipment, Apollo Protocol,
Plastic Housing

1548a/01

Incorporating the following mandatory modules

MCU Main Board
BA100 Power Supply
CPFA Display Board
M1LA 1 Loop x Apollo protocol

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

LEONIS A	<p>Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4 I/O & 2 Relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway</p> <p>Certified with the following option with requirements 7.8 Output to fire alarm devices 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 9.5 Disablement of addressable points 10 Test condition</p> <p>1-4 Loop Analogue Addressable Control and Indicating Equipment, Apollo Protocol, Metal Housing</p>	1548a/02
LEONIS	<p>Incorporating the following mandatory modules MCU Main Board BA100 Power Supply CPFA Display Board M1LA 1 Loop x Apollo protocol</p> <p>Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4 I/O & 2 relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway</p> <p>Certified with the following option with requirements 7.8 Output to fire alarm devices 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 9.5 Disablement of addressable points 10 Test condition</p> <p>1-2 Loop Analogue Addressable Control and Indicating Equipment for LOTA range of products, Plastic Housing</p>	1548a/03
	<p>Incorporating the following mandatory modules MCU Main Board BA100 Power Supply CPFA Display Board M1BT Detection path for LOTA range of products</p> <p>Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-EG 4I/O & 2 Relay M8GPIO-EG 8 channel I/O MR10-EG 10 relay outputs MGW-EG Supervisor gateway MGER-EG Alarm and Fault transmission path</p> <p>Certified with the following option with requirements 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C</p>	

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of the power supply	
	8.9 Output to fault warning routing equipment	
	9.5 Disabling of addressable points	
	10 Test condition	
LEONIS	1-4 Loop Analogue Addressable Control and Indicating Equipment for LOTA range of products, Metal Housing	1548a/04
	Incorporating the following mandatory modules	
	MCU Main Board	
	BA100 Power Supply CPFA Display Board	
	M1BT Detection path for LOTA range of products	
	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-EG 4 I/O & 2 relay	
	M8GPIO-EG 8 channel I/O	
	MR10-EG 10 relay outputs	
	MGW-EG Supervisor gateway	
	MGER-EG Alarm and Fault transmission path	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	
	7.9.1 Output to fire alarm routing equipment	
	7.10.1 Outputs to fire controls for fire protection equipment - Output type A	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal - Type A	
	7.12.2 Dependencies on more than one alarm signal - Type B	
	7.12.3 Dependencies on more than one alarm signal - Type C	
	7.13 Alarm counter	
	8.3 Fault signals from points	
	8.4 Total loss of the power supply	
	8.9 Output to fault warning routing equipment	
	9.5 Disabling of addressable points	
	10 Test condition	

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An der Strusbek 3, 22926 Ahrensburg, Hamburg, Germany

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Certificate No: 1548a-(cl-2) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
DC520	1-2 Loop Analogue Addressable Control and Indicating Equipment, DL 520 Protocol, Plastic Housing	1548a/03
	Incorporating the following mandatory modules	
	CPU-520 Main Board	
	BA100 Power Supply CPFA Display Board	
	M1BT ELOT (1 Loop Detection path, DL 520 protocol)	
	Incorporating the following optional modules	
	M2SL 2x conventional Sounder	
	BPS Backplane	
	M4IO2R-520 4 I/O & 2 relay	
	M8IO-520 8 channel I/O	
	M10R- 520 10 relay outputs	
	MGW-520 Supervisor gateway	
	MGER-520 Alarm and Fault transmission path	
	Certified with the following option with requirements	
	7.8 Output to fire alarm devices	

Certificated Products

**LPCB Ref.
No.**

DC520	<p>7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition</p> <p>1-4 Loop Analogue Addressable Control and Indicating Equipment, DL 520 Protocol, Metal Housing Incorporating the following mandatory modules CPU-520 Main Board BA100 Power Supply CPFA Display Board M1BT ELOT (1 Loop Detection path, DL 520 protocol)</p> <p>Incorporating the following optional modules M2SL 2x conventional Sounder BPS Backplane M4IO2R-520 4 I/O & 2 relay M8IO-520 8 channel I/O M10R- 520 10 relay outputs MGW-520 Supervisor gateway MGER-520 Alarm and Fault transmission path</p> <p>Certified with the following option with requirements 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.10.1 Outputs to fire controls for fire protection equipment - Output type A 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition</p>	1548a/04
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Eaton Electrical Systems Limited

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Certificate No: 714w to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 714y to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 714x-(cl-1) to EN 54-4: 1997 + A1: 2002 + A2: 2006 & EN 54-16: 2008
Certificate No: 714x-(cl-2) to EN 54-4: 1997 + A1: 2002 + A2: 2006 & EN 54-16: 2008
Certificate No: 714x-(cl-3) to EN 54-4: 1997 + A1: 2002 + A2: 2006 & EN 54-16: 2008
Certificate No: 714x-(cl-4) to EN 54-4: 1997 + A1: 2002 + A2: 2006 & EN 54-16: 2008
Certificate No: 714h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

CF2000	<p>Analogue Addressable 2 Loop Control and Indicating Equipment</p> <p>Incorporating the following units: PR202-50-2209 Power supply board PR202-50-2206 Main motherboard PR202-50-2205 Display board</p> <p>Certified with the following options with requirements from EN 54-2:</p>	714h/02
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PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment (Type A)
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal (Type C)
7.13 Alarm counter
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition

Notes:

1. *The scope of approval does not include the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

DF2000

Analogue Addressable 2 Loop Control and Indicating Equipment

714h/02

Incorporating the following units:

PR202-50-2206	Main motherboard
PR202-50-2205	Display board
PR202-50-2209	Power supply board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment (Type A)
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal (Type C)
7.13 Alarm counter
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition

Notes:

1. *The scope of approval does not include the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

FX2000

Analogue Addressable 2 Loop Control and Indicating Equipment

714h/02

Incorporating the following units:

PR202-50-2209	Power supply board
PR202-50-2206	Main motherboard
PR202-50-2205	Display board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment (Type A)
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal (Type C)
7.13 Alarm counter
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition

Notes:

1. *The scope of approval does not include the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

CF3000

Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment

714w/01

Incorporating the following units:

ADF6 Back	Assembled back box
YPCB2153	Motherboard PCB
YPCB2147	PSU PCB
YPCB2148	2 Loop Card (2 off)
ADF6Screen	Touch Screen
ZPCB2185	Complete Display + Micro PCB
ADF6 DISPCOVER	Display PCB Cover
ADF6FACIA	Front Moulding
ADF6PRINTDOOR	Printer Door Moulding

Certificated Products

**LPCB Ref.
No.**

BAT-NP12-12 Batteries (2 off)
ADF6HINGE Door Hinges

Incorporating the following optional modules:
ADF6OPFACIA Optional Anti Tamper Cover
ADF6PRINTER Printer
YPCB2187 Fire Brigade Interface
YPCB2137 Micro Display card
YPCB2319 Sounder loop card
YPCB2433 FRE/FPE loop card
YPCB2222 Loop splitter card
YPCB2145LED LED board
YPCB2202 Single channel Network card
YPCBNCDRUL Dual channel Network card

Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment (Type A)
7.10.2 Output to automatic fire protection equipment (Type B)
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal (Type C)
7.13 Alarm counter
8.9 Output to fault warning routing equipment
9.5 Disablement of each address point
10 Test condition

Notes:

1. The scope of approval does not include the network functionality.
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

COP3000

Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment

714w/01

Incorporating the following units:

ADF6 Back Assembled back box
YPCB2153 Motherboard PCB
YPCB2147 PSU PCB
YPCB2148 2 Loop Card (2 off)
ADF6Screen Touch Screen
ZPCB2185 Complete Display + Micro PCB
ADF6 DISCOVER Display PCB Cover
ADF6FACIA Front Moulding
ADF6PRINTDOOR Printer Door Moulding
BAT-NP12-12 Batteries (2 off)
ADF6HINGE Door Hinges

Incorporating the following optional modules:
ADF6OPFACIA Optional Anti Tamper Cover
ADF6PRINTER Printer
YPCB2187 Fire Brigade Interface
YPCB2137 Micro Display card
YPCB2319 Sounder loop card
YPCB2433 FRE/FPE loop card
YPCB2222 Loop splitter card
YPCB2145LED LED board
YPCB2202 Single channel Network card
YPCBNCDRUL Dual channel Network card

Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment (Type A)
7.10.2 Output to automatic fire protection equipment (Type B)
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal (Type C)
7.13 Alarm counter
8.9 Output to fault warning routing equipment
9.5 Disablement of each address point
10 Test condition

Notes:

1. The scope of approval does not include the network functionality.
2. This product approval does not constitute compliance with the fire detection and alarm

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

DF6000	<p>systems requirements of EN 54-13. Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment Incorporating the following units:</p> <table><tbody><tr><td>ADF6 Back</td><td>Assembled back box</td></tr><tr><td>YPCB2153</td><td>Motherboard PCB</td></tr><tr><td>YPCB2147</td><td>PSU PCB</td></tr><tr><td>YPCB2148</td><td>2 Loop Card (2 off)</td></tr><tr><td>ADF6Screen</td><td>Touch Screen</td></tr><tr><td>ZPCB2185</td><td>Complete Display + Micro PCB</td></tr><tr><td>ADF6 DISPCOVER</td><td>Display PCB Cover</td></tr><tr><td>ADF6FACIA</td><td>Front Moulding</td></tr><tr><td>ADF6PRINTDOOR</td><td>Printer Door Moulding</td></tr><tr><td>BAT-NP12-12</td><td>Batteries (2 off)</td></tr><tr><td>ADF6HINGE</td><td>Door Hinges</td></tr></tbody></table> <p>Incorporating the following optional modules:</p> <table><tbody><tr><td>ADF6OPFACIA</td><td>Optional Anti Tamper Cover</td></tr><tr><td>ADF6PRINTER</td><td>Printer</td></tr><tr><td>YPCB2187</td><td>Fire Brigade Interface</td></tr><tr><td>YPCB2137</td><td>Micro Display card</td></tr><tr><td>YPCB2319</td><td>Sounder loop card</td></tr><tr><td>YPCB2433</td><td>FRE/FPE loop card</td></tr><tr><td>YPCB2222</td><td>Loop splitter card</td></tr><tr><td>YPCB2145LED</td><td>LED board</td></tr><tr><td>YPCB2202</td><td>Single channel Network card</td></tr><tr><td>YPCBNCDRUL</td><td>Dual channel Network card</td></tr></tbody></table> <p>Certified with the following options with requirements from EN 54-2:</p> <table><tbody><tr><td>7.8</td><td>Output to fire alarm device(s)</td></tr><tr><td>7.9.1</td><td>Output to fire alarm routing equipment</td></tr><tr><td>7.10.1</td><td>Output to automatic fire protection equipment (Type A)</td></tr><tr><td>7.10.2</td><td>Output to automatic fire protection equipment (Type B)</td></tr><tr><td>7.11</td><td>Delays to outputs</td></tr><tr><td>7.12.3</td><td>Dependencies on more than one alarm signal (Type C)</td></tr><tr><td>7.13</td><td>Alarm counter</td></tr><tr><td>8.9</td><td>Output to fault warning routing equipment</td></tr><tr><td>9.5</td><td>Disablement of each address point</td></tr><tr><td>10</td><td>Test condition</td></tr></tbody></table> <p>Notes:</p> <ol style="list-style-type: none">1. The scope of approval does not include the network functionality.2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	ADF6 Back	Assembled back box	YPCB2153	Motherboard PCB	YPCB2147	PSU PCB	YPCB2148	2 Loop Card (2 off)	ADF6Screen	Touch Screen	ZPCB2185	Complete Display + Micro PCB	ADF6 DISPCOVER	Display PCB Cover	ADF6FACIA	Front Moulding	ADF6PRINTDOOR	Printer Door Moulding	BAT-NP12-12	Batteries (2 off)	ADF6HINGE	Door Hinges	ADF6OPFACIA	Optional Anti Tamper Cover	ADF6PRINTER	Printer	YPCB2187	Fire Brigade Interface	YPCB2137	Micro Display card	YPCB2319	Sounder loop card	YPCB2433	FRE/FPE loop card	YPCB2222	Loop splitter card	YPCB2145LED	LED board	YPCB2202	Single channel Network card	YPCBNCDRUL	Dual channel Network card	7.8	Output to fire alarm device(s)	7.9.1	Output to fire alarm routing equipment	7.10.1	Output to automatic fire protection equipment (Type A)	7.10.2	Output to automatic fire protection equipment (Type B)	7.11	Delays to outputs	7.12.3	Dependencies on more than one alarm signal (Type C)	7.13	Alarm counter	8.9	Output to fault warning routing equipment	9.5	Disablement of each address point	10	Test condition	714w/01
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FX6000	<p>systems requirements of EN 54-13. Intelligent Analogue Addressable 1-4 Loop Control and Indicating Equipment Incorporating the following units:</p> <table><tbody><tr><td>ADF6 Back</td><td>Assembled back box</td></tr><tr><td>YPCB2153</td><td>Motherboard PCB</td></tr><tr><td>YPCB2147</td><td>PSU PCB</td></tr><tr><td>YPCB2148</td><td>2 Loop Card (2 off)</td></tr><tr><td>ADF6Screen</td><td>Touch Screen</td></tr><tr><td>ZPCB2185</td><td>Complete Display + Micro PCB</td></tr><tr><td>ADF6 DISPCOVER</td><td>Display PCB Cover</td></tr><tr><td>ADF6FACIA</td><td>Front Moulding</td></tr><tr><td>ADF6PRINTDOOR</td><td>Printer Door Moulding</td></tr><tr><td>BAT-NP12-12</td><td>Batteries (2 off)</td></tr><tr><td>ADF6HINGE</td><td>Door Hinges</td></tr></tbody></table> <p>Incorporating the following optional modules:</p> <table><tbody><tr><td>ADF6OPFACIA</td><td>Optional Anti Tamper Cover</td></tr><tr><td>ADF6PRINTER</td><td>Printer</td></tr><tr><td>YPCB2187</td><td>Fire Brigade Interface</td></tr><tr><td>YPCB2137</td><td>Micro Display card</td></tr><tr><td>YPCB2319</td><td>Sounder loop card</td></tr><tr><td>YPCB2433</td><td>FRE/FPE loop card</td></tr><tr><td>YPCB2222</td><td>Loop splitter card</td></tr><tr><td>YPCB2145LED</td><td>LED board</td></tr><tr><td>YPCB2202</td><td>Single channel Network card</td></tr><tr><td>YPCBNCDRUL</td><td>Dual channel Network card</td></tr></tbody></table> <p>Certified with the following options with requirements from EN 54-2:</p> <table><tbody><tr><td>7.8</td><td>Output to fire alarm device(s)</td></tr><tr><td>7.9.1</td><td>Output to fire alarm routing equipment</td></tr></tbody></table>	ADF6 Back	Assembled back box	YPCB2153	Motherboard PCB	YPCB2147	PSU PCB	YPCB2148	2 Loop Card (2 off)	ADF6Screen	Touch Screen	ZPCB2185	Complete Display + Micro PCB	ADF6 DISPCOVER	Display PCB Cover	ADF6FACIA	Front Moulding	ADF6PRINTDOOR	Printer Door Moulding	BAT-NP12-12	Batteries (2 off)	ADF6HINGE	Door Hinges	ADF6OPFACIA	Optional Anti Tamper Cover	ADF6PRINTER	Printer	YPCB2187	Fire Brigade Interface	YPCB2137	Micro Display card	YPCB2319	Sounder loop card	YPCB2433	FRE/FPE loop card	YPCB2222	Loop splitter card	YPCB2145LED	LED board	YPCB2202	Single channel Network card	YPCBNCDRUL	Dual channel Network card	7.8	Output to fire alarm device(s)	7.9.1	Output to fire alarm routing equipment	714w/01																
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PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

- 7.10.1 Output to automatic fire protection equipment (Type A)
- 7.10.2 Output to automatic fire protection equipment (Type B)
- 7.11 Delays to outputs
- 7.12.3 Dependencies on more than one alarm signal (Type C)
- 7.13 Alarm counter
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each address point
- 10 Test condition

Notes:

1. The scope of approval does not include the network functionality.
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Eaton Cooper Enterprise

Rack Mount VACIE

714x/01

Incorporating any of the following modules:

VAR Series Routers:

EFC-VAR4(EN54) Router 4x4 DSP EN54

EFC-VIPEDIA-12 Series Routers:

EFC-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EFC-VIPEDIA-12 Optional modules:

EFC-VIPEDIA-NET VIPEDIA-12 Network Card

EFC-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc.

VIPA-OS

Adaptors:

EFC-BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With

Terminations

EFC-BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

EFC-V2000 Amplifier Frame: EFC-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

EFC-D500 Amplifier Module 500w

EFC-D150 Amplifier Module 150w

Amplifier interfaces for EFC-V2000 mainframe:

EFC-LSZDC Dual Line surveillance interface

EFC-V2000-STBY V2000 Standby Interface

EFC-V400 Amplifier frame: EFC-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:

EFC-BPC65 Battery Charger with Mounting Tray 65ah Inc. Cables and

Breakers

EFC-BPC130 Battery Charger with Mounting Tray 130ah Inc. Cables and

Breakers

Optional modules:

EFC-EMS01 (MK2) Emergency microphone station - All call

EFC-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFC-EMS10 Emergency microphone station - 10 Button

EFC-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFC-EMS20 Emergency microphone station - 20 Button

EFC-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFC-EMS50 Emergency microphone station - 50 Button

EFC-EMX30 Expansion module for EFC-EMS20 - 30 Button

EFC-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFC-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFC-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFC-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck

mic

EFC-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFC-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck

mic

EFC-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFC-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

mic
EFC-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
EFC-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck
mic
EFC-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
EFC-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck
mic
EFC-MPX10 Microphone expansion module for EFC-MPS01 - 10 Button
EFC-MPS01-MB Wall mount bracket kit for EFC-MPS01
EFC-MPX10-MB Wall mount bracket kit for EFC-MPS10 EFC-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.9 Voice alarm condition output
8.3 Indication of faults related to the transmission path to the CIE
8.4 Indication of faults related to voice alarm zones
10 Voice Alarm Manual control (Except on EFC-VAR routers)
12 Emergency microphone(s)
13.14 Redundant power amplifiers
Rack Mount VACIE

Eaton Enterprise

714x/01

Incorporating any of the following modules:

VAR Series Routers:

EF-VAR4(EN54) Router 4x4 DSP EN54

EF-VIPEDIA-12 Series Routers:

EF-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EF-VIPEDIA-12 Optional modules:

EF-VIPEDIA-NET VIPEDIA-12 Network Card

EF-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc.

VIPA-OS

Adaptors:

EF-BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With

Terminations

EF-BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

EF-V2000 Amplifier Frame: EF-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

EF-D500 Amplifier Module 500w

EF-D150 Amplifier Module 150w

Amplifier interfaces for EF-V2000 mainframe:

EF-LSZDC Dual Line surveillance interface

EF-V2000-STBY V2000 Standby Interface

EF-V400 Amplifier frame: EF-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:

EF-BPC65 Battery Charger with Mounting Tray 65ah Inc. Cables and

Breakers

EF-BPC130 Battery Charger with Mounting Tray 130ah Inc. Cables and

Breakers

Optional modules:

EF-EMS01 (MK2) Emergency microphone station - All call

EF-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EF-EMS10 Emergency microphone station - 10 Button

EF-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EF-EMS20 Emergency microphone station - 20 Button

EF-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EF-EMS50 Emergency microphone station - 50 Button

EF-EMX30 Expansion module for EF-EMS20 - 30 Button

EF-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EF-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EF-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

Certificated Products

**LPCB Ref.
No.**

EF-MPS10-G mic	Desk paging and emergency microphone - 10 Button Gooseneck
EF-MPS20-F	Desk paging and emergency microphone - 20 Button Fist mic
EF-MPS20-G mic	Desk paging and emergency microphone - 20 Button Gooseneck
EF-MPS30-F	Desk paging and emergency microphone - 30 Button Fist mic
EF-MPS30-G mic	Desk paging and emergency microphone - 30 Button Gooseneck
EF-MPS40-F	Desk paging and emergency microphone - 40 Button Fist mic
EF-MPS40-G mic	Desk paging and emergency microphone - 40 Button Gooseneck
EF-MPS50-F	Desk paging and emergency microphone - 50 Button Fist mic
EF-MPS50-G mic	Desk paging and emergency microphone - 50 Button Gooseneck
EF-MPX10	Microphone expansion module for EF-MPS01 - 10 Button
EF-MPS01-MB	Wall mount bracket kit for EF-MPS01
EF-MPX10-MB	Wall mount bracket kit for EF-MPS10 EF-MPS20

Certified with the following options with requirements from EN54 Part 16:
 7.6.2 Manual silencing of voice alarm condition
 7.7.2 Manual reset of the voice alarm condition
 7.9 Voice alarm condition output
 8.3 Indication of faults related to the transmission path to the CIE
 8.4 Indication of faults related to voice alarm zones
 10 Voice Alarm Manual control (Except on EF-VAR routers)
 12 Emergency microphone(s)
 13.14 Redundant power amplifiers
 Rack Mount VACIE

Eaton JSB Enterprise

714x/01

Incorporating any of the following modules:

VAR Series Routers:

EFJ-VAR4(EN54) Router 4x4 DSP EN54

EFJ-VIPEDIA-12 Series Routers:

EFJ-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EFJ-VIPEDIA-12 Optional modules:

EFJ-VIPEDIA-NET

VIPEDIA-12 Network Card

EFJ-VIPEDIA-NET-4GB

VIPEDIA-12 Network Card with 4GB Audio Storage Inc.

VIPA-OS

Adaptors:

EFJ-BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With

Terminations

EFJ-BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

EFJ-V2000 Amplifier Frame: EFJ-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

EFJ-D500

Amplifier Module 500w

EFJ-D150

Amplifier Module 150w

Amplifier interfaces for EFJ-V2000 mainframe:

EFJ-LSZDC

Dual Line surveillance interface

EFJ-V2000-STBY

V2000 Standby Interface

EFJ-V400 Amplifier frame: EFJ-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:

EFJ-BPC65

Battery Charger with Mounting Tray 65ah Inc. Cables and

Breakers

EFJ-BPC130

Battery Charger with Mounting Tray 130ah Inc. Cables and

Breakers

Optional modules:

EFJ-EMS01 (MK2) Emergency microphone station - All call

EFJ-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder

lock

EFJ-EMS10

Emergency microphone station - 10 Button

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

EFJ-EMS10-EC	Emergency microphone station - 10 Button with euro-cylinder lock
EFJ-EMS20	Emergency microphone station - 20 Button
EFJ-EMS20-EC	Emergency microphone station - 20 Button with euro-cylinder lock
EFJ-EMS50	Emergency microphone station - 50 Button
EFJ-EMX30	Expansion module for EFJ-EMS20 - 30 Button
EFJ-MPS01-F mic	Desk paging and emergency microphone - 1 Button Fist
EFJ-MPS01-G mic	Desk paging and emergency microphone - 1 Button Gooseneck
EFJ-MPS10-F mic	Desk paging and emergency microphone - 10 Button Fist
EFJ-MPS10-G mic	Desk paging and emergency microphone - 10 Button Gooseneck
EFJ-MPS20-F mic	Desk paging and emergency microphone - 20 Button Fist
EFJ-MPS20-G mic	Desk paging and emergency microphone - 20 Button Gooseneck
EFJ-MPS30-F mic	Desk paging and emergency microphone - 30 Button Fist
EFJ-MPS30-G mic	Desk paging and emergency microphone - 30 Button Gooseneck
EFJ-MPS40-F mic	Desk paging and emergency microphone - 40 Button Fist
EFJ-MPS40-G mic	Desk paging and emergency microphone - 40 Button Gooseneck
EFJ-MPS50-F mic	Desk paging and emergency microphone - 50 Button Fist
EFJ-MPS50-G mic	Desk paging and emergency microphone - 50 Button Gooseneck
EFJ-MPX10 Button	Microphone expansion module for EFJ-MPS01 - 10 Button
EFJ-MPS01-MB	Wall mount bracket kit for EFJ-MPS01
EFJ-MPX10-MB	Wall mount bracket kit for EFJ-MPS10 EFJ-MPS20

Certified with the following options with requirements from EN54 Part 16:

- 7.6.2 Manual silencing of voice alarm condition
- 7.7.2 Manual reset of the voice alarm condition
- 7.9 Voice alarm condition output
- 8.3 Indication of faults related to the transmission path to the CIE
- 8.4 Indication of faults related to voice alarm zones
- 10 Voice Alarm Manual control (Except on EFJ-VAR routers)
- 12 Emergency microphone(s)
- 13.14 Redundant power amplifiers

Eaton Menvier Enterprise

Rack Mount VACIE

714x/01

Incorporating any of the following modules:

VAR Series Routers:

EFM-VAR4(EN54) Router 4x4 DSP EN54

EFM-VIPEDIA-12 Series Routers:

EFM-VIPEDIA-12 VIPEDIA 12x12 IP Voice Alarm Router

EFM-VIPEDIA-12 Optional modules:

EFM-VIPEDIA-NET VIPEDIA-12 Network Card

EFM-VIPEDIA-NET-4GB VIPEDIA-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFM-BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With

Terminations

EFM-BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

EFM-V2000 Amplifier Frame: EFM-V2000 Amplifier frame for housing D series amplifiers and amplifier interfaces

D Series amplifiers:

EFM-D500 Amplifier Module 500w

EFM-D150 Amplifier Module 150w

Amplifier interfaces for EFM-V2000 mainframe:

EFM-LSZDC Dual Line surveillance interface

Certificated Products

**LPCB Ref.
No.**

EFM-V2000-STBY V2000 Standby Interface

EFM-V400 Amplifier frame: EFM-V400 Amplifier frame for housing M series amplifiers and amplifier interfaces

Power supply:

EFM-BPC65 Battery Charger with Mounting Tray 65ah Inc. Cables and Breakers

EFM-BPC130 Battery Charger with Mounting Tray 130ah Inc. Cables and Breakers

Optional modules:

EFM-EMS01 (MK2) Emergency microphone station - All call

EFM-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock

EFM-EMS10 Emergency microphone station - 10 Button

EFM-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock

EFM-EMS20 Emergency microphone station - 20 Button

EFM-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock

EFM-EMS50 Emergency microphone station - 50 Button

EFM-EMX30 Expansion module for EFM-EMS20 - 30 Button

EFM-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic

EFM-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic

EFM-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic

EFM-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck

mic

EFM-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic

EFM-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck

mic

EFM-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic

EFM-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck

mic

EFM-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic

EFM-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck

mic

EFM-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic

EFM-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck

mic

EFM-MPX10 Microphone expansion module for EFM-MPS01 - 10 Button

EFM-MPS01-MB Wall mount bracket kit for EFM-MPS01

EFM-MPX10-MB Wall mount bracket kit for EFM-MPS10 EFM-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition

7.7.2 Manual reset of the voice alarm condition

7.9 Voice alarm condition output

8.3 Indication of faults related to the transmission path to the CIE

8.4 Indication of faults related to voice alarm zones

10 Voice Alarm Manual control (Except on EFM-VAR routers)

12 Emergency microphone(s)

13.14 Redundant power amplifiers

Wall Mounting VACIE

EFCDAU2000

714x/02

Incorporating the following:

EFCDAU2000 All-in-one Wall Mount VACIE for D Series amplifiers and amplifier interfaces

Optional modules:

EFC-D500 Amplifier Module 500w

EFC-D150 Amplifier Module 150w

EFC-LSZDC Dual Line surveillance interface

EFC-V2000-STBY V2000 Standby Interface

EFC-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

EFC-VIPEDIA-12 Optional Modules:

EFC-VIPEDIA-NET Vipedia-12 Network Card

EFC-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFC-BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With Terminations

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

EFC-BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

Optional Emergency Microphones:

EFC-EMS01 (MK2) Emergency microphone station - All call
EFC-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EFC-EMS10 Emergency microphone station - 10 Button
EFC-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EFC-EMS20 Emergency microphone station - 20 Button
EFC-EMS20-EC Emergency microphone station - 20 Button with euro-cylinder lock
EFC-EMS50 Emergency microphone station - 50 Button
EFC-EMX30 Expansion module for EFC-EMS20 - 30 Button

EFC-MPS01-F Desk paging and emergency microphone - 1 Button Fist mic
EFC-MPS01-G Desk paging and emergency microphone - 1 Button Gooseneck mic
EFC-MPS10-F Desk paging and emergency microphone - 10 Button Fist mic
EFC-MPS10-G Desk paging and emergency microphone - 10 Button Gooseneck mic
EFC-MPS20-F Desk paging and emergency microphone - 20 Button Fist mic
EFC-MPS20-G Desk paging and emergency microphone - 20 Button Gooseneck mic
EFC-MPS30-F Desk paging and emergency microphone - 30 Button Fist mic
EFC-MPS30-G Desk paging and emergency microphone - 30 Button Gooseneck mic
EFC-MPS40-F Desk paging and emergency microphone - 40 Button Fist mic
EFC-MPS40-G Desk paging and emergency microphone - 40 Button Gooseneck mic
EFC-MPS50-F Desk paging and emergency microphone - 50 Button Fist mic
EFC-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
EFC-MPX10 Microphone expansion module for EFC-MPS01 - 10 Button
EFC-MPS01-MB Wall mount bracket kit for EFC-MPS01
EFC-MPX10-MB Wall mount bracket kit for EFC-MPS10 EFC-MPS20

Certified with the following options with requirements from EN54 Part 16:

7.6.2 Manual silencing of voice alarm condition
7.7.2 Manual reset of the voice alarm condition
7.9 Voice alarm condition output
8.3 Indication of faults related to the transmission path to the CIE
8.4 Indication of faults related to voice alarm zones
10.0 Voice Alarm Manual control
12.0 Emergency microphone(s)
13.14 Redundant power amplifiers
Wall Mounting VACIE

EFDAU2000

714x/02

Incorporating the following:

EFDAU2000 All-in-one Wall Mount VACIE for D Series amplifiers and amplifier interfaces

Optional modules:

EF-D500 Amplifier Module 500w
EF-D150 Amplifier Module 150w
EF-LSZDC Dual Line surveillance interface
EF-V2000-STBY V2000 Standby Interface
EF-BMB01 RS485 Interfaced Analogue and Digital I/O Expansion Unit

EF-VIPEDIA-12 Optional Modules:

EF-VIPEDIA-NET Vikipedia-12 Network Card
EF-VIPEDIA-NET-4GB Vikipedia-12 Network Card with 4GB Audio Storage Inc.
VIPA-OS

Adaptors:

EF-BOA01 RJ45 DIN Terminal Breakout Adaptor Single Port With Terminations
EF-BOA02 RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

Optional Emergency Microphones:

EF-EMS01 (MK2) Emergency microphone station - All call
EF-EMS01-EC(MK2) Emergency microphone station - All call with euro-cylinder lock
EF-EMS10 Emergency microphone station - 10 Button
EF-EMS10-EC Emergency microphone station - 10 Button with euro-cylinder lock
EF-EMS20 Emergency microphone station - 20 Button

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

EF-EMS20-EC	Emergency microphone station - 20 Button with euro-cylinder lock
EF-EMS50	Emergency microphone station - 50 Button
EF-EMX30	Expansion module for EF-EMS20 - 30 Button
EF-MPS01-F	Desk paging and emergency microphone - 1 Button Fist mic
EF-MPS01-G	Desk paging and emergency microphone - 1 Button Gooseneck mic
EF-MPS10-F	Desk paging and emergency microphone - 10 Button Fist mic
EF-MPS10-G	Desk paging and emergency microphone - 10 Button Gooseneck
EF-MPS20-F	Desk paging and emergency microphone - 20 Button Fist mic
EF-MPS20-G	Desk paging and emergency microphone - 20 Button Gooseneck
EF-MPS30-F	Desk paging and emergency microphone - 30 Button Fist mic
EF-MPS30-G	Desk paging and emergency microphone - 30 Button Gooseneck
EF-MPS40-F	Desk paging and emergency microphone - 40 Button Fist mic
EF-MPS40-G	Desk paging and emergency microphone - 40 Button Gooseneck
EF-MPS50-F	Desk paging and emergency microphone - 50 Button Fist mic
EF-MPS50-G	Desk paging and emergency microphone - 50 Button Gooseneck
EF-MPX10	Microphone expansion module for EF-MPS01 - 10 Button
EF-MPS01-MB	Wall mount bracket kit for EF-MPS01
EF-MPX10-MB	Wall mount bracket kit for EF-MPS10 EF-MPS20

Certified with the following options with requirements from EN54 Part 16:

- 7.6.2 Manual silencing of voice alarm condition
 - 7.7.2 Manual reset of the voice alarm condition
 - 7.9 Voice alarm condition output
 - 8.3 Indication of faults related to the transmission path to the CIE
 - 8.4 Indication of faults related to voice alarm zones
 - 10.0 Voice Alarm Manual control
 - 12.0 Emergency microphone(s)
 - 13.14 Redundant power amplifiers
- Wall Mounting VACIE

EFJDAU2000

714x/02

Incorporating the following:

EFJDAU2000 All-in-one Wall Mount VACIE for D Series amplifiers and amplifier interfaces

Optional modules:

EFJ-D500	Amplifier Module 500w
EFJ-D150	Amplifier Module 150w
EFJ-LSZDC	Dual Line surveillance interface
EFJ-V2000-STBY	V2000 Standby Interface
EFJ-BMB01	RS485 Interfaced Analogue and Digital I/O Expansion Unit

EFJ-VIPEDIA-12 Optional Modules:

EFJ-VIPEDIA-NET Vipedia-12 Network Card
EFJ-VIPEDIA-NET-4GB Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFJ-BOA01	RJ45 DIN Terminal Breakout Adaptor Single Port With Terminations
EFJ-BOA02	RJ45 DIN Terminal Breakout Adaptor Four Port Straight Through

Optional Emergency Microphones:

EFJ-EMS01 (MK2)	Emergency microphone station - All call
EFJ-EMS01-EC(MK2)	Emergency microphone station - All call with euro-cylinder lock
EFJ-EMS10	Emergency microphone station - 10 Button
EFJ-EMS10-EC	Emergency microphone station - 10 Button with euro-cylinder lock
EFJ-EMS20	Emergency microphone station - 20 Button
EFJ-EMS20-EC	Emergency microphone station - 20 Button with euro-cylinder lock
EFJ-EMS50	Emergency microphone station - 50 Button
EFJ-EMX30	Expansion module for EFJ-EMS20 - 30 Button
EFJ-MPS01-F	Desk paging and emergency microphone - 1 Button Fist mic
EFJ-MPS01-G	Desk paging and emergency microphone - 1 Button Gooseneck mic
EFJ-MPS10-F	Desk paging and emergency microphone - 10 Button Fist mic
EFJ-MPS10-G	Desk paging and emergency microphone - 10 Button Gooseneck

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

EFJ-MPS20-F	mic Desk paging and emergency microphone - 20 Button Fist mic
EFJ-MPS20-G	Desk paging and emergency microphone - 20 Button Gooseneck
EFJ-MPS30-F	mic Desk paging and emergency microphone - 30 Button Fist mic
EFJ-MPS30-G	Desk paging and emergency microphone - 30 Button Gooseneck
EFJ-MPS40-F	mic Desk paging and emergency microphone - 40 Button Fist mic
EFJ-MPS40-G	Desk paging and emergency microphone - 40 Button Gooseneck
EFJ-MPS50-F	mic Desk paging and emergency microphone - 50 Button Fist mic
EFJ-MPS50-G	Desk paging and emergency microphone - 50 Button Gooseneck
EFJ-MPX10	mic Microphone expansion module for EFJ-MPS01 - 10 Button
EFJ-MPS01-MB	Wall mount bracket kit for EFJ-MPS01
EFJ-MPX10-MB	Wall mount bracket kit for EFJ-MPS10 EFJ-MPS20

Certified with the following options with requirements from EN54 Part 16:

- 7.6.2 Manual silencing of voice alarm condition
 - 7.7.2 Manual reset of the voice alarm condition
 - 7.9 Voice alarm condition output
 - 8.3 Indication of faults related to the transmission path to the CIE
 - 8.4 Indication of faults related to voice alarm zones
 - 10.0 Voice Alarm Manual control
 - 12.0 Emergency microphone(s)
 - 13.14 Redundant power amplifiers
- Wall Mounting VACIE

EFMDAU2000

714x/02

Incorporating the following:

EFMDAU2000 All-in-one Wall Mount VACIE for D Series amplifiers and amplifier interfaces

Optional modules:

EFM-D500	Amplifier Module 500w
EFM-D150	Amplifier Module 150w
EFM-LSZDC	Dual Line surveillance interface
EFM-V2000-STBY	V2000 Standby Interface
EFM-BMB01	RS485 Interfaced Analogue and Digital I/O Expansion Unit
EFM-VIPEDIA-12	Optional Modules:
EFM-VIPEDIA-NET	Vipedia-12 Network Card
EFM-VIPEDIA-NET-4GB	Vipedia-12 Network Card with 4GB Audio Storage Inc. VIPA-OS

Adaptors:

EFM-BOA01	RJ45 DIN Terminal Breakout Adaptor - Single Port - With Terminations
EFM-BOA02	RJ45 DIN Terminal Breakout Adaptor - Four Port - Straight Through

Optional Emergency Microphones:

EFM-EMS01 (MK2)	Emergency microphone station - All call
EFM-EMS01-EC(MK2)	Emergency microphone station - All call with euro-cylinder lock
EFM-EMS10	Emergency microphone station - 10 Button
EFM-EMS10-EC	Emergency microphone station - 10 Button with euro-cylinder lock
EFM-EMS20	Emergency microphone station - 20 Button
EFM-EMS20-EC	Emergency microphone station - 20 Button with euro-cylinder lock
EFM-EMS50	Emergency microphone station - 50 Button
EFM-EMX30	Expansion module for EFM-EMS20 - 30 Button

EFM-MPS01-F	Desk paging and emergency microphone - 1 Button Fist mic
EFM-MPS01-G	Desk paging and emergency microphone - 1 Button Gooseneck mic
EFM-MPS10-F	Desk paging and emergency microphone - 10 Button Fist mic
EFM-MPS10-G	Desk paging and emergency microphone - 10 Button Gooseneck
EFM-MPS20-F	mic Desk paging and emergency microphone - 20 Button Fist mic
EFM-MPS20-G	Desk paging and emergency microphone - 20 Button Gooseneck
EFM-MPS30-F	mic Desk paging and emergency microphone - 30 Button Fist mic
EFM-MPS30-G	Desk paging and emergency microphone - 30 Button Gooseneck
EFM-MPS40-F	mic Desk paging and emergency microphone - 40 Button Fist mic
EFM-MPS40-G	Desk paging and emergency microphone - 40 Button Gooseneck
EFM-MPS50-F	mic Desk paging and emergency microphone - 50 Button Fist mic

Certificated Products

**LPCB Ref.
No.**

EFM-MPS50-G Desk paging and emergency microphone - 50 Button Gooseneck mic
 EFM-MPX10 Microphone expansion module for EFM-MPS01 - 10 Button
 EFM-MPS01-MB Wall mount bracket kit for EFM-MPS01
 EFM-MPX10-MB Wall mount bracket kit for EFM-MPS10 - EFM-MPS20

Certified with the following options with requirements from EN54 Part 16:

- 7.6.2 Manual silencing of voice alarm condition
- 7.7.2 Manual reset of the voice alarm condition
- 7.9 Voice alarm condition output
- 8.3 Indication of faults related to the transmission path to the CIE
- 8.4 Indication of faults related to voice alarm zones
- 10.0 Voice Alarm Manual control
- 12.0 Emergency microphone(s)
- 13.14 Redundant power amplifiers

EFCDP2Z

2 Zone Conventional Fire Alarm Control Panel

714y/01

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
 TPCA024-2 2 Zone Main PCB

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

EFCDP4Z

4 Zone Conventional Fire Alarm Control Panel

714y/02

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
 TPCA024-4 4 Zone Main PCB

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

EFCDP8Z

8 Zone Conventional Fire Alarm Control Panel

714y/03

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
 TPCA024-8 8 Zone Main PCB
 TPCA025 Expansion Card

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. *The scope of the approval does not include the operation of the network functionality*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

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Certificate No: 331q-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.
331q/06

MAGDUO2 2 Zone Twin Wire Control and Indicating Equipment

Incorporating the following units:
10-0067 Main Processor Card.

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.10.1 Output type A to fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Type A dependency on more than one alarm signal
- 10 Test condition.

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

MAGDUO4 4 Zone Twin Wire Control and Indicating Equipment

331q/07

Incorporating the following units:
10-0067 Main Processor Card.

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.10.1 Output type A to fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Type A dependency on more than one alarm signal
- 10 Test condition.

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

MAGDUO8 8 Zone Twin Wire Control and Indicating Equipment

331q/08

Incorporating the following units:
10-0067 Main Processor Card
10-0087 4 Zone Expansion Card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.10.1 Output type A to fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Type A dependency on more than one alarm signal
- 10 Test condition.

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

Certificated Products

systems requirements of EN 54-13

LPCB Ref.
No.

Eurotech Fire Systems Limited

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Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
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Certificate No: 1213b to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-4: 1998 + A1: 2002 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

510-0108A Odyssey Plus	One loop, 32 Zone analogue addressable control and indicating equipment.	1213b/01
	<p>Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610)</p> <p>Optional Modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)</p> <p>Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition</p>	
510-0208A Odyssey Plus	Two loop, 32 Zone analogue addressable control and indicating equipment.	1213b/02
	<p>Incorporating as modular units: BRD68BPSC4-A FFP Brigade & Power supply control board (8610) BRD86DLTB4-A FFP Dual loop termination board (8610) BRD86FPB5-B FFP Front panel board EN54 (8610) BRD86MBA4-A FFP Main board LCD (8610) BRD86MCPU4-B FFP Main 64MB CPU card (8610) BRD86SCB3-A FFP Slave CPU card (8610) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310) PSU1888 Power supply 5A (8610)</p> <p>Optional Modules: BRD43EZC2-A 8 Zone conventional module (4310) BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)</p> <p>Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routine equipment 7.11 Delay to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 8.3 Fault signal from points 8.9 Output to fault warning routing equipment 9.5 Disablement of each addressable point 10 Test condition</p>	
510-0308A Odyssey Plus	Three loop, 32 Zone analogue addressable control and indicating equipment	1213b/03

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Incorporating as modular units:
BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCPU4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Two Slave CPU cards (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86SCB3-A FFP Slave CPU cards (8610)
BRD43EYC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routine equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal Type A
7.12.2 Dependencies on more than one alarm signal Type B
7.12.3 Dependencies on more than one alarm signal Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disablement of each addressable point
10 Test condition

Incorporating as modular units:

BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCPU4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Two Slave CPU cards (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86SCB3-A FFP Slave CPU cards (8610)
BRD43EYC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routine equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal Type A
7.12.2 Dependencies on more than one alarm signal Type B
7.12.3 Dependencies on more than one alarm signal Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disablement of each addressable point
10 Test condition

510-0408A Odyssey Plus

Four loop, 32 Zone analogue addressable control and indicating equipment

1213b/04

Incorporating as modular units:
BRD68BPSC4-A FFP Brigade & Power supply control board (8610)
BRD86DLTB4-A FFP Two Dual loop termination boards (8610)
BRD86FPB5-B FFP Front panel board EN54 (8610)
BRD86MBA4-A FFP Main board LCD (8610)
BRD86MCPU4-B FFP Main 64MB CPU card (8610)
BRD86SCB3-A FFP Three Slave CPU cards (8610)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
PSU1888 Power supply 5A (8610)

Optional Modules:

BRD86DLTB4-A FFP Dual loop termination board (8610)
BRD86SCB3-A FFP Slave CPU cards (8610)
BRD43EYC2-A 8 Zone conventional module (4310)
BRD43ZAMC2-A 32 Zone alarm MIMIC internal card (4310)
Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routine equipment

Certificated Products

**LPCB Ref.
No.**

7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal Type A
7.12.2 Dependencies on more than one alarm signal Type B
7.12.3 Dependencies on more than one alarm signal Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each addressable point
10 Test condition

Certificate No: 1213a to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-4: 1998 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

500-0105A Odyssey 32 Zone analogue addressable control and indicating equipment

1213a/01

Incorporating the following units:
BRD82MBA Main Termination Board
BRD82ZICC Zone Interface & Control Card
PSU2397 Power Supply Unit
1213a/01
ASS82ZICC Zone Indicator & LCD Assembly (8210)
Certificated with the following options with requirements from EN54-2:
7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each addressable point
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

500-0205A Odyssey Two loop, 32 Zone analogue addressable control and indicating equipment

1213a/02

Incorporating the following units:
BRD82MBA Main Termination Board
BRD82ZICC Zone Interface & Control Card
PSU2397 Power Supply Unit
8210-0001 2nd loop activation Key
BRD82LSD Loop Activation Board
ASS82ZICC Zone Indicator & LCD Assembly (8210)
Certificated with the following options with requirements from EN54-2:
7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal Type A
7.12.2 Dependencies on more than one alarm signal Type B
7.12.3 Dependencies on more than one alarm signal Type C
8.3 Fault signal from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each addressable point
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Fike Safety Technology Ltd

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E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331q to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref.

507-0001

Quadnet, 4 loop analogue addressable control and indicating equipment

No.

331q/01

Incorporating the following units:

10-0049	Main CIE Board
10-0050	LED Board
SP14Q006-T	LCD Module
10-0051	Backplane
10-0058	Loop Card
10-0053	PSU Interface

Certified with the following options with requirements from EN54-2:

7.8	Output to fire alarm devices
7.10.1	Output to fire protection equipment - Type A
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal - Type B
8.3	Fault signals from points
8.9	Fault warning routing equipment
9.5	Disabling of each addressable point
10	Test condition

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

510-0001

Duonet, 2 loop analogue addressable control and indicating equipment

331q/04

Incorporating the following units:

10-0049	Main CIE Board
10-0050	LED Board
SP14Q006-T	LCD Module
10-0069	Backplane
10-0058	Loop Card
10-0053	PSU Interface

Certified with the following options with requirements from EN54-2:

7.8	Output to fire alarm devices
7.10.1	Output to fire protection equipment - Type A
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal - Type B
8.3	Fault signals from points
8.9	Fault warning routing equipment
9.5	Disabling of each addressable point
10	Test condition

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

505-0002

TWINFLEXpro, 2 Zone Twin Wire control and indicating equipment

331q/06

Incorporating:

10-0067 Main Processor Card.

Certified with the following options from EN 54 Part 2:

7.8	Output to fire alarm devices
7.10.1	Output type A to fire protection equipment
7.11	Delays to outputs
7.12.1	Type A dependency on more than one alarm signal
10	Test condition.

Certificated Products

LPCB Ref. No.
331q/07

505-0004 TWINFLEXpro, 4 Zone Twin Wire control and indicating equipment

Incorporating:
10-0067 Main Processor Card.

Certified with the following options from EN 54 Part 2:

7.8 Output to fire alarm devices
7.10.1 Output type A to fire protection equipment
7.11 Delays to outputs
7.12.1 Type A dependency on more than one alarm signal
10 Test condition.

505-0008 TWINFLEXpro, 8 Zone Twin Wire control and indicating equipment

331q/08

Incorporating:
10-0067 Main Processor Card
10-0087 4 Zone expansion card.

Certified with the following options from EN 54 Part 2:

7.8 Output to fire alarm devices
7.10.1 Output type A to fire protection equipment
7.11 Delays to outputs
7.12.1 Type A dependency on more than one alarm signal
10 Test condition.

505-0008C TWINFLEXpro, 4 Zone Twin Wire and 4 Zone Conventional Control and Indicating Equipment

331q/09

Incorporating the following units:
10-0067 Main Processor Card
10-0088 4 Zone Conventional Expansion Card

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices
7.10.1 Output type A to fire protection equipment
7.11 Delays to outputs
7.12.1 Type A dependency on more than one alarm signal
10 Test condition.

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

Finder Elektronik A.S.

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Certificate No: 1450g-(cl-1) to EN 54-2:1997 + A1: 2006 & EN 54-4:1997 +A1: 2002 + A2: 2006

Certificate No: 1395c-(cl-1) to EN 54-2:1997 + A1: 2006 & EN 54-4:1997 +A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.
1395c/02

FF CF608 8 Zone Conventional Control and Indicating Equipment Incorporating the following units:

Asenware Main Board Main Board
Asenware Interface Board Interface Board
Asenware PSE Power and Charger Board
Asenware Zonal Board 2 x 4 Zone Boards
Asenware EMI EMI Board

Certified with the following options with requirements from EN54-2: 1997 + A1: 2006:

7.8 Output to fire alarm devices (option with requirements)
7.9.1 Output to fire alarm routing equipment (option with requirements)
7.10.1 Output type A (option with requirement)
7.10.2 Output type B (option with requirement)
8.9 Output to fault warning routing equipment (option with requirements)

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

FF FCP500	<p><i>Note:</i> 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p> <p>1-4 Loops Analogue Addressable Fire Alarm Control Panel</p> <p>Incorporating the following modules:</p> <table><tr><td>TC5109-Main</td><td>Main board</td></tr><tr><td>TC5109-Loop</td><td>Loop board</td></tr><tr><td>TC5109-XZB</td><td>Loop base board</td></tr><tr><td>TC5109-Key</td><td>Keypad board</td></tr><tr><td>TC5109-ZX</td><td>Zone and FPE indicator board</td></tr><tr><td>TC5109-LCD</td><td>Display board</td></tr><tr><td>TC5109-SCR</td><td>Indicator board</td></tr><tr><td>TC5120-RS485</td><td>RS485 board</td></tr><tr><td>TC5000-MAIN-CAN</td><td>CAN board</td></tr><tr><td>TC5109-LB1</td><td>Filter board 1</td></tr><tr><td>TC5109-LB2</td><td>Filter board 2</td></tr><tr><td>TC5109-POW</td><td>Power Supply Equipment</td></tr></table> <p>Certified with the following options with requirements:</p> <p>7.8 Output to fire alarm device(s)</p> <p>7.10.1 Output to automatic fire protection equipment Type A</p> <p>7.10.2 Output to automatic fire protection equipment Type B</p> <p>7.10.3 Output to automatic fire protection equipment Type C</p> <p>8.3 Fault signals from point</p> <p>9.5 Disabling of addressable points</p> <p><i>Notes:</i> 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13. 2. Scope of approval does not include the operation of the network functionality.</p>	TC5109-Main	Main board	TC5109-Loop	Loop board	TC5109-XZB	Loop base board	TC5109-Key	Keypad board	TC5109-ZX	Zone and FPE indicator board	TC5109-LCD	Display board	TC5109-SCR	Indicator board	TC5120-RS485	RS485 board	TC5000-MAIN-CAN	CAN board	TC5109-LB1	Filter board 1	TC5109-LB2	Filter board 2	TC5109-POW	Power Supply Equipment	1450g/01
TC5109-Main	Main board																									
TC5109-Loop	Loop board																									
TC5109-XZB	Loop base board																									
TC5109-Key	Keypad board																									
TC5109-ZX	Zone and FPE indicator board																									
TC5109-LCD	Display board																									
TC5109-SCR	Indicator board																									
TC5120-RS485	RS485 board																									
TC5000-MAIN-CAN	CAN board																									
TC5109-LB1	Filter board 1																									
TC5109-LB2	Filter board 2																									
TC5109-POW	Power Supply Equipment																									

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates

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E-mail: mutasem@firefighterco1.ae

Certificate No: 1174j-(cl-3) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

FST-6847	<p>4 Loop Analogue Addressable Control and Indicating Equipment</p> <p>Incorporating the following modules:</p> <table><tr><td>VSL2.908.146</td><td>Main Board</td></tr><tr><td>VSL2.908.149</td><td>Indication board</td></tr><tr><td>VSL2.908.155</td><td>Terminal board</td></tr><tr><td>VSL2.908.162</td><td>Control Board</td></tr><tr><td>VSL2.908.153</td><td>Loop Card</td></tr><tr><td>VSL2.908.152</td><td>I/O Board</td></tr><tr><td>VSL2.908.169</td><td>Power Board</td></tr><tr><td>VSL7-820-150</td><td>Zone Board</td></tr><tr><td>VSL7-820-154</td><td>Network Card</td></tr><tr><td>LRS-150-24</td><td>MEAN-WELL Power Supply module</td></tr></table> <p>Certified with the following option with requirements for EN54-2:</p> <p>7.8 Output to fire alarm devices</p> <p>7.10.1 Outputs to fire protection equipment (Type A)</p> <p>7.10.2 Outputs to fire protection equipment (Type B)</p> <p>7.10.3 Outputs to fire protection equipment (Type C)</p>	VSL2.908.146	Main Board	VSL2.908.149	Indication board	VSL2.908.155	Terminal board	VSL2.908.162	Control Board	VSL2.908.153	Loop Card	VSL2.908.152	I/O Board	VSL2.908.169	Power Board	VSL7-820-150	Zone Board	VSL7-820-154	Network Card	LRS-150-24	MEAN-WELL Power Supply module	1174j/01
VSL2.908.146	Main Board																					
VSL2.908.149	Indication board																					
VSL2.908.155	Terminal board																					
VSL2.908.162	Control Board																					
VSL2.908.153	Loop Card																					
VSL2.908.152	I/O Board																					
VSL2.908.169	Power Board																					
VSL7-820-150	Zone Board																					
VSL7-820-154	Network Card																					
LRS-150-24	MEAN-WELL Power Supply module																					

Certificated Products

**LPCB Ref.
No.**

- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)
- 7.13 Alarm Counter
- 9.5 Disablement of addressable point
- 10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

Firelite by Honeywell (Pittway Systems Technology Group (Europe) Ltd)

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Certificate No: 154g to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

**LPCB Ref.
No.**

FLS2-8 2 Zone	002-475-122 Language region 1, light grey 002-489-122 Language region 1, light grey, English manual 002-475-222 Language region 2, light grey 002-489-222 Language region 2, light grey, English manual <i>Certified with the following options with requirements from EN 54 Part 2:</i> 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition	154g/06
FLS2-8 4 Zone	002-475-142 Language region 1, light grey 002-489-142 Language region 1, light grey, English manual 002-475-242 Language region 2, light grey 002-489-242 Language region 2, light grey, English manual <i>Certified with the following options with requirements from EN 54 Part 2:</i> 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition	154g/07
FLS2-8 8 Zone	002-475-182 Language region 1, light grey 002-489-182 Language region 1, light grey, English manual 002-475-282 Language region 2, light grey 002-489-282 Language region 2, light grey, English manual	154g/08

Incorporating the following units:
 020-747 8-way relay kit

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

020-772 4-way monitored sounder kit
Certified with the following options with requirements from EN 54 Part 2:
7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment: Type A
7.10.3 Output to automatic fire protection equipment: Type C
7.10.4 Fault monitoring of fire protection equipment
7.11.1 Delays to outputs
7.11.2 Manual or automatic switching of delays to outputs
7.12.2 Dependency on more than one alarm signal: Type B
8.9 Output to fault warning routing equipment
10 Test condition

Firesafe

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Certificate No: 176b-(cl-1) to EN 54-2: 1997+A1: 2006 and EN 54-4: 1997+A1: 2002+A2: 2006

Certificate No: 810a-(cl-4) to EN 54-2: 1997+A1: 2006 and EN 54-4: 1997+A1: 2002+A2: 2006

Certificated Products

LPCB Ref.
No.

FXP502/X

Two Loop, 32 Zone Analogue addressable control and indicating equipment using Apollo Protocol, Metal housing

176b/02

Incorporating the following units:

SPF0706000 Switch Mode Power supply board
SPF0501201 XFP Apollo 2 Loop, Main motherboard
SPF0501200 Display board Keypad Display

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disablement of each address point
10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.

FXP501/X

One Loop, 32 Zone Analogue addressable control and indicating equipment using Apollo Protocol, Metal housing

176b/04

Incorporating the following units:

SPF0706000 Switch Mode Power supply board
SPF0501211 XFP Apollo 1 Loop, Main motherboard
SPF0501200 Display board Keypad Display

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
7.12.1 Dependencies on more than one alarm signal Type A
7.12.2 Dependencies on more than one alarm signal Type B
7.12.3 Dependencies on more than one alarm signal Type C
7.13 Alarm counter
8.3 Fault signals from points

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CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>9.5 Disablement of each address point 10 Test condition</p> <p><i>Notes:</i> 1. <i>Scope of approval does not include the operation of the network functionality.</i></p> <p>FXP501E/X One Loop, 16 Zone Analogue addressable control and indicating equipment using Apollo protocol, Plastic housing</p> <p>Incorporating the following units:</p> <p>SPF0702480 Switch Mode Power supply board SPF0501101 XFP Apollo 1 Loop, Main motherboard</p> <p>Certified with the following options with requirements from EN 54-2:1997</p> <p>7.8 Output to fire alarm device(s) 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment 7.12.1 Dependencies on more than one alarm signal Type A 7.12.2 Dependencies on more than one alarm signal Type B 7.12.3 Dependencies on more than one alarm signal Type C 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p><i>Notes:</i> 1. <i>Scope of approval does not include the operation of the network functionality.</i></p>	<p>176b/06</p>
<p>FCFP2N</p> <p>Incorporating the units:</p> <p>SPF0702480 Switch mode power supply unit board SPF0724851 2 Zone main control board</p> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <p>7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition</p> <p>FCFP4N Four zone conventional control and indicating equipment</p> <p>Incorporating the units:</p> <p>SPF0702480 Switch mode power supply unit board SPF0724853 4 Zone main control board</p> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <p>7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition</p> <p>FCFP8N Eight zone conventional control and indicating equipment</p> <p>Incorporating the units:</p> <p>SPF0702480 Switch mode power supply unit board SPF0724855 8 Zone main control board</p> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <p>7.8 Output to fire alarm devices(s) 7.11 Delays to outputs 10 Test condition</p>	<p>176b/07</p> <p>176b/08</p> <p>176b/09</p>
<p>FSDG2 / FSDG4</p> <p>Dualguard+ 2 and 4 Zone Conventional Control and Indicating Equipment</p> <p>FSDG2</p> <p>Incorporating as modular units: TPC A01-E2 2 zone main PCB applicable on 2 zone CIE only TPC A02 LED display PCB PSM1.5-24 Power supply 1.5A rated</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices</p>	<p>810a/03</p>

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

7.12.1 Dependency on more than one alarm signal type A
10 Test condition

FSDG4

Incorporating as modular units:

TPC A01-E4 4 zone main PCB applicable on 4 zone CIE only

TPC A02 LED display PCB

PSM1.5-24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.12.1 Dependency on more than one alarm signal type A

10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FSDG8 / FSDG12

Dualguard+ 8 and 12 Zone Conventional Control and Indicating Equipment

810a/04

FSDG8 8 Zone Conventional Control and Indicating Equipment

Incorporating as modular units:

TPCA01-X4 4 Zone Main PCB

TPCA03 Display Board

TPCA04-H High Spec 4 Zone Extension Board

PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 Communications Board

FSDG12 12 Zone Conventional Control and Indicating Equipment

Incorporating as modular units:

TPCA01-X4 4 Zone Main PCB

TPCA03 Display Board

TPCA04-S Standard 4 Zone Extension Board

TPCA04-H High Spec 4 Zone Extension Board

PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices

7.11 Delays to outputs

7.12.1 Dependency on more than one alarm signal type A

7.12.2 Dependency on more than one alarm signal type B

7.12.3 Dependency on more than one alarm signal type C

10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Certificate No: 548p-(cl-5) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

FX200-2

Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment

548p/01

Incorporating the following units:

MB-220/ F7.820.826 Main board

SB-220/ F7.820.827 Switch board

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board LC200/ F7.820.1125 Loop board</p> <p>Incorporating as optional modular units: FX9930/ F7.820.913a RS-232 board for configuration FX9901A Printer module kit</p> <p>Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points Intelligent 8 loop, 140 zone analogue addressable control and indicating equipment</p>	548p/02
<p>Incorporating the following units: SB-800/ F7.820.1238 Indication board LCIFP8/ F7.820.1239 Loop board PB-800/ F7.820.1311 Power board ZP-800/ F7.820.1312 ZCP board KB-800/ F7.820.1326 Keypad board MB-800/ F7.820.1237 Main board MO-800/ F7.820.1310 Mother board</p> <p>Incorporating as optional modular units: FX9935/ F7.820.1313 USB communication board</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.9.2 Alarm confirmation input from fire routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition 2 Zone conventional control and indicating equipment</p>	548p/03
<p>Incorporating the following modules: FC-102A/ F7.843.399 Membrane CB-102A/ F2.908.1719 Control board with integrated PSE DB-102A/ F2.908.1722 Display board</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition 4 Zone conventional control and indicating equipment</p>	548p/04
<p>Incorporating the following modules: FC-104A/ F7.843.400 Membrane CB-104A/ F2.908.1718 Control board with integrated PSE DB-104A/ F2.908.1721 Display board</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition 8 Zone Conventional Control and Indicating Equipment</p>	548p/05
<p>Incorporating the following modules: FC-108A/ F7.843.401 Membrane CB-108A/ F2.908.1675 Control board with integrated PSE DB-108A/ F2.908.1720 Display board</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition 16 Zone Conventional Control and Indicating Equipment</p>	548p/06
<p>Incorporating the following modules:</p>	

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

FC-116A/ F7.843.402 Membrane
CB-116A/ F2.908.1724 Control board with integrated PSE
DB-116A/ F2.908.1676 Display board
XB-116A/ F7.820.1677 Expansion board

FX200N-2

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.9.1 Output to fire routing equipment
7.11 Delays to outputs
10 Test condition

Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment

548p/07

Incorporating the following units:

MB-220N Main board

PS-220N Power management board

OX-220 Terminal board

ZP-220 Zone indication and intervention board

SB-220 Switch board

TB-220N Loop interface board

LC200 Loop board

PDF-150-27.5 Powered SMPS 100-240V power supply

Incorporating as optional modular units:

P-9930 RS-232 board for configuration

P-9901A Printer module kit

P-9960A CAN network card loop type board

P-9940A Class A network card

P-9930ModBus RS232 Modbus interface card

P-9960 CAN Class B network card

Certified with the following options with requirements from EN 54 part 2:

7.8 Output to Fire Alarm Devices
7.10.1 Output to automatic Fire Protection Equipment Type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable points

Note:

- 1. Scope of approval does not include the operation of the network functionality*
- 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*

FX200-2/1

Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment

548p/08

Incorporating the following units:

MB-220/ F7.820.826 Main board

SB-220/ F7.820.827 Switch board

TB-220/ F7.820.828 Loop interface board

PS-220/ F7.820.829b Power supply unit

ZP-220/ F7.820.312d Zone indication and intervention board

Incorporating as optional modular units:

FX9930/ F7.820.913a RS-232 board for configuration

FX9901A Printer module kit

LC200/ F7.820.1125 Loop board (for loop expansion)

Certified with the following options with requirements from EN 54 part 2:

7.8 Output to Fire Alarm Devices
7.10.1 Output to automatic Fire Protection Equipment Type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable points

Note: can be extended to 2 loop panel by adding LC200

Certificated Products

FX200N-1 Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment
Incorporating the following units:
MB-220N Main board
PS-220N Power management board
OX-220 Terminal board
ZP-220 Zone indication and intervention board
SB-220 Switch board
TB-220N Loop interface board
PDF-150-27.5 Powered SMPS 100-240V power supply

LPCB Ref. No.
548p/11

Incorporating as optional modular units:
P-9930 RS-232 board for configuration
P-9901A Printer module kit
P-9960A CAN network card loop type board
P-9940A RS485 Class A network card
P-9930ModBus RS232 Modbus interface card
P-9960 CAN Class B network card

Certified with the following options with requirements from EN 54 part 2:

- 7.8 Output to Fire Alarm Devices
- 7.10.1 Output to automatic Fire Protection Equipment Type A
- 7.11 Delays to outputs
- 8.3 Fault signals from points
- 9.5 Disablement of addressable points

Notes:

1. Can be converted to 2 loop by adding LC200 Loop board
2. Scope of approval does not include the operation of the network functionality
3. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

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Certificate No: 1426g-(cl-4) to EN 54-2:1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2:2006

Control and indicating equipment

Certificated Products

FRN 3002 Addressable Fire Alarm Control Panel
Incorporating the following modules:
SEC3002_IO IO Board
SEC3002_B Monitoring Board (B Board)
ZB-9100-A Main CPU Board (A Board)
PSE10_KZ Power Supply
SEC3002_QK Zone Indication Board
SEC3002_KEY Key Board
SEC3002_FL1 Loop SPU Board

LPCB Ref. No.
1426g/01

Incorporating the following optional modules:

SEC3002_COM Communication Board
Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 8.3 Fault signals from points
- 9.5 Disablement of addressable point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.
2. Scope of approval does not include the operation of the network functionality.

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

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Certificate No: 042x to EN 54: Parts 2 & 4: 1997

Certificate No: 042bb to EN 54-2: 1997 and EN 54-4: 1997

Certificate No: 042bm to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-16: 2008

Certificate No: 042bc to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref. No.

AS-2000	Two loop analogue addressable control and indicating equipment Incorporating as modular units: 2434-824 Power supply 2434-710 Loop Processor Card 2434-833 Master Control Card 2434-825 Optical Network Card* 2434-821 Message Store Card* 2434-822 Mother board 2434-835 H.M.I 2434-840 Cold fire card 2434-796 Addressable speaker card (Optional Card)* 2434-826 Addressable daughter speaker card (Optional Card)* 2434-780 Audio Input Card (Optional Card)* 2434-781 Audio Output Card (Optional Card)* <i>Scope of approval does not include the functionality of the network card and optional voice alarm system cards.</i> <i>Certified with the following options from EN 54 Part 2: 1997</i> 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition	042bb/01
Nano-24	Single loop analogue addressable control and indicating equipment Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition	042bc/01
Nano-24-SP	Single loop analogue addressable control and indicating equipment (Spanish Language Variant) Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface) Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition	042bc/02
Nano-24-PO	Single loop analogue addressable control and indicating equipment (Portuguese Language Variant) Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface)	042bc/03

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition</p> <p>Nano-24-NO Single Loop Analogue Addressable Control and Indicating Equipment (Norwegian Language Variant)</p> <p>Notes: Incorporating as modular units: 2434-881 Mother board 2434-862 Power supply 2434-887 H.M.I (Human Machine Interface)</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 10 Test condition</p> <p>Compact VA Two loop voice alarm CIE with distributed mains powered amplifier</p> <p>Incorporating as modular units within the Compact-VA: 2434-669LUGI Compact Loop Card 2434-859LUGI Compact Network Control Card 2434-862LUGI Compact Network PSU Card 2434-870LUGI Multiformat DKC Compact VA 2434-792 Audio Control Card 2434-023 MPEG Speech Card 2434-722 ACU DKC Card</p> <p>Incorporating as modular units within the Distributed Amplifier Unit: 2434-897LUGI Mains powered DAU PSU Card 2434-875 Mains Powered DAU Control Card 2434-876 Mains Powered DAU Amplifier 2434-880 MPEG Speech Card</p> <p>Certified with the following options with requirements from EN 54-2:</p> <p>7.8 Output to fire alarm devices 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of each address point 10 Test condition</p> <p>Certified with the following options with requirements from EN 54-16:</p> <p>7.3 Audible warning 7.6.2 Manual silencing of the voice alarm condition 7.7.2 Manual reset of the voice alarm condition 7.8 Output to fire alarm devices 8.3 Indication of faults related to the transmission path to the CIE 8.4 Indication of faults related to voice alarm zones 12.0 Emergency microphones 13.14 Redundant power amplifiers</p> <p>Notes:</p> <ol style="list-style-type: none"> <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i> <i>Scope of approval does not include the operation of the network functionality.</i> 	<p>042bc/14</p> <p>042bm/01</p> <p>042x/02</p> <p>042x/02</p> <p>042x/03</p>
<p>13270-02 2 zone conventional control and indicating equipment <i>Certified with the following options from EN 54 Part 2: 1997</i> 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition</p>	
<p>Xenex 2 13270-02LB 2 zone conventional control and indicating equipment (Xenex brand) <i>Certified with the following options from EN 54 Part 2: 1997</i> 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment 10 Test condition</p>	
<p>13270-04 4 zone conventional control and indicating equipment <i>Certified with the following options from EN 54 Part 2: 1997</i> 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment</p>	

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CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
Xenex 4 13270-04LB	10 Test condition 4 zone conventional control and indicating equipment (brand) Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment	042x/03
13270-08	10 Test condition 8 zone conventional control and indicating equipment Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment	042x/04
Xenex 8 13270-08LB	10 Test condition 8 zone conventional control and indicating equipment (Xenex brand) Certified with the following options from EN 54 Part 2: 1997 7.8 Output to fire alarm devices 7.11 Delays of actioning to outputs to fire alarm routing equipment	042x/04

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Control and indicating equipment

Certificate No: 548p to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
GST200-2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board LC200/ F7.820.1125 Loop board Incorporating as optional modular units: P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disabling of addressable points	548p/01
GST-IFP8	Intelligent 8 loop, 140 zone analogue addressable control and indicating equipment Incorporating the following units: SB-800 Indication board	548p/02

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

LCIFP8	Loop board
PB-800	Power board
ZP-800	ZCP board
KB-800	Keypad board
MB-800	Main board
MO-800	Mother board
PS-800	Switch Mode Power Supply SP-320-27Incorporating as optional modular units:
P-9935	USB communication board
P-9935Modbus	RS232 ModBus Communication Card
P-9945RP	Repeater Card
P-9945A	Class A RS485 Network Card
P-9965	Class B CAN Network Card
P-9965A	Class A CAN Network Card
P-9904	Printer Interface Card

Optional language variants;

GST-IFP8-PT	Portuguese language variant
GST-IFP8-HU	Hungarian language variant
GST-IFP8-FR	French language variant
GST-IFP8-IT	Italian language variant
GST-IFP8-SP	Spanish language variant
GST-IFP8-TK	Turkish language variant

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire routing equipment
- 7.9.2 Alarm confirmation input from fire routing equipment
- 7.10.1 Output type A
- 7.10.2 Output type B
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

GST102A

2 Zone conventional control and indicating equipment

548p/03

Incorporating the following modules:

FC-102A/ F7.843.399	Membrane
CB-102A/ F2.908.1719	Control board with integrated PSE
DB-102A/ F2.908.1722	Display board

Optional modules:

GST102A-HK	Traditional Chinese text variant
CF-102A/ F7.843.421	Membrane

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire routing equipment
- 7.11 Delays to outputs
- 10 Test condition

GST104A

4 Zone conventional control and indicating equipment

548p/04

Incorporating the following modules:

FC-104A/ F7.843.400	Membrane
CB-104A/ F2.908.1718	Control board with integrated PSE
DB-104A/ F2.908.1721	Display board

Optional modules:

GST104A-HK	Traditional Chinese text variant
CF-104A/ F7.843.422	Membrane

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire routing equipment
- 7.11 Delays to outputs

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CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
GST108A	10 Test condition 8 Zone conventional control and indicating equipment Incorporating the following modules: FC-108A/ F7.843.401 Membrane CB-108A/ F2.908.1675 Control board with integrated PSE DB-108A/ F2.908.1720 Display board Optional modules: GST108A-HK Traditional Chinese text variant CF-108A/ F7.843.423 Membrane Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/05
GST116A	16 Zone Conventional Control and Indicating Equipment Incorporating the following modules: FC-116A/ F7.843.402 Membrane CB-116A/ F2.908.1724 Control board with integrated PSE DB-116A/ F2.908.1676 Display board XB-116A/ F7.820.1677 Expansion board Optional modules: GST116A-HK Traditional Chinese text variant CF-116A/ F7.843.424 Membrane Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition	548p/06
GST200N-2	Intelligent 2 loop, 30 zone analogue addressable control and indicating equipment <i>Incorporating the following units:</i> MB-220N Main board PS-220N Power management board OX-220 Terminal board ZP-220 Zone indication and intervention board SB-220 Switch board TB-220N Loop interface board LC200 Loop board PDF-150-27.5 Powered SMPS 100-240V power supply <i>Incorporating as optional modular units:</i> P-9930 RS-232 board for configuration P-9901A Printer module kit P-9960A CAN network card loop type board P-9940A RS485 Class A network card P-9930ModBus RS232 Modbus interface card P-9960 CAN Class B network card <i>Certified with the following options with requirements from EN54 part 2:</i> 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points <i>Notes:</i> 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13	548p/07
GST200-2/1	Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.913a Zone indication and intervention board	548p/08

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

Incorporating as optional modular units:
P-9930/ F7.820.913a RS-232 board for configuration
P-9901A Printer module kit
LC200/ F7.820.1125 Loop board (for loop expansion)

Certified with the following options with requirements from EN 54 part 2:
7.8 Output to Fire Alarm Devices
7.10.1 Output to automatic Fire Protection Equipment
Type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable points

GST200-2/1PT Note: can be extended to 2 loop panel by adding LC200
Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment 548p/09

Incorporating the following units:
MB-220/ F7.820.826 Main board
SB-220/ F7.820.827 Switch board
TB-220/ F7.820.828 Loop interface board
PS-220/ F7.820.829b Power supply unit
ZP-220/ F7.820.312d Zone indication and intervention board

Incorporating as optional modular units:
P-9930/ F7.820.913a RS-232 board for configuration
P-9901A Printer module kit
LC200/ F7.820.1125 Loop board (for loop expansion)

Certified with the following options with requirements from EN 54 part 2:
7.8 Output to Fire Alarm Devices
7.10.1 Output to automatic Fire Protection Equipment
Type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable points

GST200-2/1HU Note: Can be extended to 2-loop panel by adding LC200
Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment (Hungarian Variant) 548p/10

Incorporating the following units:
MB-220/ F7.820.826 Main board
SB-220/ F7.820.827 Switch board
TB-220/ F7.820.828 Loop interface board
PS-220/ F7.820.829b Power supply unit
ZP-220/ F7.820.312d Zone indication and intervention board

Incorporating as optional modular units:
P-9930/ F7.820.913a RS-232 board for configuration
P-9901A Printer module kit
LC200/ F7.820.1125 Loop board (for loop expansion)

Certified with the following options with requirements from EN 54 part 2:
7.8 Output to Fire Alarm Devices
7.10.1 Output to automatic Fire Protection
Equipment Type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable points

GST200N-1 Note: Can be extended to 2-loop panel by adding LC200
Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment 548p/11

Incorporating the following units:
MB-220N Main board
PS-220N Power management board
OX-220 Terminal board
ZP-220 Zone indication and intervention board
SB-220 Switch board
TB-220N Loop interface board

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

PDF-150-27.5 Powered SMPS 100-240V power supply

**LPCB Ref.
No.**

Incorporating as optional modular units:

P-9930 RS-232 board for configuration

P-9901A Printer module kit

P-9960A CAN network card loop type board

P-9940A RS485 Class A network card

P-9930ModBus RS232 Modbus interface card

P-9960 CAN Class B network card

ZP-220-GY Indicator Board (for use with GST200N-HK only)

ZP-220-RY Indicator Board (for use with GST200N-HK only)

ZP-220-GYRY Indicator Board (for use with GST200N-HK only)

ZP-220-NULL Blank Board (for use with GST200N-HK only)

Optional language variants:

GST200N-PT Portuguese language variant

GST200N-HU Hungarian language variant

GST200N-FR French language variant

GST200N-IT Italian language variant

GST200N-SP Spanish language variant

GST200N-TK Turkish language variant

GST200N-HK Traditional Chinese language variant

GST200N-RO Romanian language variant

Certified with the following options with requirements from EN54 part 2:

7.8 Output to Fire Alarm Devices

7.10.1 Output to automatic Fire Protection Equipment Type A

7.11 Delays to outputs

8.3 Fault signals from points

9.5 Disabling of addressable points

Notes:

1. Can be converted to 2 loops by adding LC200 Loop board
2. Scope of approval does not include the operation of the network functionality
3. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

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Certificate No: 810a to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 810m to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

Eclipse 4 and 2 Zone conventional control and indicating equipment

**LPCB Ref.
No.**
810a/03

ECL-2

Incorporating as modular units:

TPC A01- E2 Eclipse two zone main PCB applicable on 2 zone CIE only

TPC A02 ZoneFinder LED display PCB

Certificated Products

**LPCB Ref.
No.**

PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.12.1 Dependency on more than one alarm signal type A
10 Test condition

ECL-4

Incorporating as modular units:

TPC A01- E4 Eclipse four zone main PCB applicable on 4 zone CIE only
TPC A02 Eclipse LED display PCB
PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.12.1 Dependency on more than one alarm signal type A
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Excel-EN

2,4, 6, 8 and 12 Zone conventional control and indicating equipment

810a/04

Excel-EN 2 Zone Conventional Control Panel (Manufacturers internal code XLEN-2)

Incorporating as modular units:

TPCA01-X 2 XLEN 2 Zone Main PCB
TPCA03 XLEN Display Board
PSM3.0-24 Power Supply

Incorporating as optional module:

TPCA05 XLEN Communications Board

Excel-EN 4 Zone Conventional Control Panel (Manufacturers internal code XLEN-4)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
PSM3.0-24 Power Supply

Excel-EN 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6H)

Incorporating as modular units:

TPCA01-X2 XLEN 2 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Excel-EN 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6)

Incorporating as modular units:

TPCA01-X2 XLEN 2 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-S XLEN Standard 4 Zone Extension Board
PSM3.0-24 Power Supply

Excel-EN 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Excel-EN 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8L)

Incorporating as modular units:

TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-S XLEN Standard 4 Zone Extension Board
PSM3.0-24 Power Supply

Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12)

Incorporating as modular units:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-S XLEN Standard 4 Zone Extension Board
TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12L)
Incorporating as modular units:
TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-S Two XLEN Standard 4 Zone Extension Board
PSM3.0-24 Power Supply

Excel-EN 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12H)
Incorporating as modular units:
TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-H Two XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.1 Dependency on more than one alarm signal type A
7.12.2 Dependency on more than one alarm signal type B
7.12.3 Dependency on more than one alarm signal type C
10 Test condition

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

AlarmSense

ALS-2 2 Zone AlarmSense conventional control and indicating equipment ALS-4 4 Zone AlarmSense conventional control and indicating equipment

810a/05

Incorporating as modular units:

TPCA02 Eclipse LED Display & Controls Board
TPCA06-A2 AlarmSense, 2 Zone main PCB
TPCA06-A4 AlarmSense, 4 Zone main PCB (applicable on 4 zone CIE only)
PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.12.1 Dependency on more than one alarm type A
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

AlarmSense Plus

2,4, 6, 8 and 12 Zone AlarmSense conventional control and indicating equipment

810a/06

ASP-2 2 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:
TPCA03 XLEN LED Display & Controls Board
TPCA06-P2 AlarmSense Plus, 2 Zone main PCB
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

ASP-4 4 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:
TPCA03 XLEN LED Display & Controls Board
TPCA06-P4 AlarmSense Plus, 4 Zone main PCB
PSM3.0-24 Power Supply

Certificated Products

**LPCB Ref.
No.**

Incorporating as optional module:
TPCA05 XLEN Communications Board

ASP-6 6 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:
TPCA03 XLEN LED Display & Controls Board
TPCA06-P2 AlarmSense Plus, 2 Zone main PCB
TPCA07 AlarmSense Plus, 4 zone extension card
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

ASP-8 8 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:
TPCA03 XLEN LED Display & Controls Board
TPCA06-P4 AlarmSense Plus, 4 Zone main PCB
TPCA07 AlarmSense Plus, 4 zone extension card
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

ASP-12 12 Zone AlarmSense Conventional Control Panel

Incorporating as modular units:
TPCA03 XLEN LED Display & Controls Board
TPCA06-P4 AlarmSense Plus, 4 Zone main PCB
TPCA07 AlarmSense Plus, 4 zone extension card x 2
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

XL32

16, 24 and 32 Zone conventional control and indicating equipment

810a/08

XL32-16 16 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-16 16 Zone Main PCB
TPCA12 Power supply PCB

and as optional units:

TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

XL32-24 24 Zone Conventional Control Panel

Incorporating as modular units:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

TPCA10 32 Zone LED display PCB
TPCA11-24 24 Zone Main PCB
TPCA12 Power supply PCB

and as optional units:

TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

XL32-32 32 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-32 32 Zone Main PCB
TPCA12 Power supply PCB

and as optional units:

TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.11 Delays to outputs
7.12.1 Dependency on more than one alarm signal type A
7.12.2 Dependency on more than one alarm signal type B
7.12.3 Dependency on more than one alarm signal type C
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-2 / 4

2 Zone conventional control and indicating equipment

810a/09

ESEN-2

Incorporating as modular units: TPC A01- S2 Eclipse two zone main PCB applicable on 2 zone CIE only

TPC A02 Eclipse LED display PCB
PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A10
Test condition

4 Zone conventional control and indicating equipment

ESEN-4

Incorporating as modular units: TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only

TPC A02 Eclipse LED display PCB
PSM1.5 - 24 Power supply 1.5A rated

Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A10
Test condition

Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-8

8 Zone conventional control and indicating equipment

810a/10

ESENTO 8 Zone Conventional Control Panel (Manufacturers internal code ESEN-8)

Incorporating as modular units:
TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board

Certificated Products

**LPCB Ref.
No.**

TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-12

12 Zone conventional control and indicating equipment

810a/11

ESENTO 12 Zone Conventional Control Panel (Manufacturers internal code ESEN-12)
TPCA01-X4 XLEN 4 Zone Main PCB
TPCA03 XLEN Display Board
TPCA04-S XLEN Standard 4 Zone Extension Board
TPCA04-H XLEN High Spec 4 Zone Extension Board
PSM3.0-24 Power Supply

Incorporating as optional module:
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-16

16 Zone conventional control and indicating equipment

810a/12

ESENTO 16 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-16 16 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules

TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**
810a/13

ESEN-24

24 Zone conventional control and indicating equipment

ESENTO 24 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-24 24 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules
TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.11 Delays to outputs
7.12.1 Dependency on more than one alarm signal type A
7.12.2 Dependency on more than one alarm signal type B
7.12.3 Dependency on more than one alarm signal type C
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-32

32 Zone conventional control and indicating equipment

810a/14

ESENTO 32 Zone Conventional Control Panel

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
TPCA11-32 32 Zone Main PCB
TPCA12 Power supply PCB

and as optional modules
TPCR01 Relay PCB
TPCR03 Isolate Switch PCB
TPCA09 Sounder Card PCB
TPCA08 Output Card PCB
TPCA05 XLEN Communications Board

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.11 Delays to outputs
7.12.1 Dependency on more than one alarm signal type A
7.12.2 Dependency on more than one alarm signal type B
7.12.3 Dependency on more than one alarm signal type C
10 Test condition

Note:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

ESEN-R-12MAR

12 Zone Repeater Panel is approved for use with the ESEN 8-12 Zone Control and Indicating Equipment

810a/R01

HEC-1 / HEC-1K

HEC-1 1 Zone Conventional Fire Alarm Control Panel

810m/01

HEC-1K 1 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
TPCA024-1 1 Zone Main PCB

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. *The scope of the approval does not include the operation of the network functionality*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

HEC-2 / HEC-2K

HEC-2 2 Zone Conventional Fire Alarm Control Panel
HEC-2K 2 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch

810m/02

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
TPCA024-2 2 Zone Main PCB

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. *The scope of the approval does not include the operation of the network functionality*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

HEC-4 / HEC-4K

HEC-4 4 Zone Conventional Fire Alarm Control Panel
HEC-4K 4 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch

810m/03

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
TPCA024-4 4 Zone Main PCB

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. *The scope of the approval does not include the operation of the network functionality*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

HEC-8 / HEC-8K

HEC-8 8 Zone Conventional Fire Alarm Control Panel
HEC-8K 8 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch

810m/04

Incorporating the following modules:

RS-35-24 1.5amp Internal Power Supply Module
TPCA024-8 8 Zone Main PCB
TPCA025 Expansion Card

Incorporating the following optional modules:

SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

7.8	Output to fire alarm devices
10	Test condition

LPCB Ref.
No.

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

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Certificate No: 360b-(cl-2) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

Hochiki Latitude

2 to 8 Loop Analogue Addressable Control and Indicating Equipment
2 to 16 Loop Analogue Addressable Control and Indicating Equipment

Incorporating the following units:

S721	LCD Main Processor Board
S722	Main Back Board
S723	Network, Ethernet & IFAM Interface Module
S758	Dual loop Module (Hochiki protocol)
S769	System Board A module
S770	System Board B Module
S771	Zone LED Board
S787	Vision Unit
S768	Thermal Printer Assembly
S406-06	5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408	10.25 Amp Power Supply Unit
S772	16 Channel I/O card
S791	8w Relay card
S792	8w conventional zone card
S788	Media gateway card
S793	4w sounder card
S786	4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment
7.10.3	Output to type C
7.10.4	Fault monitoring of fire protection equipment
7.11	Delay to outputs
7.12.1	Dependencies on more than one alarm signal - Type A
7.12.2	Dependencies on more than one alarm signal - Type B
7.12.3	Dependencies on more than one alarm signal - Type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disabling of addressable points
10	Test condition

Notes:

1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
4. The Hochiki Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6

LPCB Ref.
No.
360b/01

Certificated Products

deep enclosure.

LPCB Ref.
No.

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Certificate No: 360b-(cl-1) to EN 54-2:1997 + A1: 2006, EN 54-4:1997 + A1: 2002 + A2:2006
Certificate No: 164v to EN 54-4:1997 + A1:2002 + A2:2006 & EN 54-16:2008

Control and indicating equipment

Certificated Products

HFP VA-RMV2

Vigil 2 Rack Mounted Networked Voice Alarm Control and Indicating Equipment

LPCB Ref.
No.
164v/01

BFM01RM Single Zone Rack Mount Fire Mic (1U) C/W BVRDIF2
BFM401 400 Series Fire Mic. Single Zone
BFM404 400 Series Fire Mic 4 Zone
BFM408 400 Series Fire Mic 8 Zone
BMS8 Mic I/F Box RJ45 (BDM400 Series)
BV050Q Vigil 2 50 Watt Quad Amplifier
BV125D Vigil 125W Dual Amp
BV225 Vigil 225W Amp
BVRD2M DSP Controlled Voice Alarm Routing Matrix
BVRD2M4 DSP VA Mini Router (4 Channel)
BVRD2M4ACO Amp/Line Monitor & Changeover Module for BVRD2M4
BVRD2S DSP Controlled Voice Alarm Slave Router Unit
BVRD2SLT DSP Controlled Voice Alarm Mini Slave Unit
BVRD8 Voice Alarm Mic 8 Zone
BVRD16 Voice Alarm Mic 16 Zone
BVRD24 Voice Alarm Mic 24 Zone
BVRD32 Voice Alarm Mic 32 Zone
BVRD40 Voice Alarm Mic 40 Zone
BVRD48 Voice Alarm Mic 48 Zone
BVRD56 Voice Alarm Mic 56 Zone
BVRD64 Voice Alarm Mic 64 Zone
BVRDCI Control Input Interface Card
BVRDCIF Copper Interface for BVRDNET
BVRDFIF Fibre Optic Interface for BVRDNET (Multi Mode)
BVRDFIFS Fibre Optic Interface for BVRDNET (Single Mode)
BVRDFPI Fire Panel Interface
BVRDIF1 Aux/Music Input Interface for EVAS racks
BVRDIF2 Mic I/P Interface for EVAS Racks
BVRDIF3 Data Mic I/P Interface for EVAS Racks
BVRDNET BVRD2M Network Card
BVRDNET2M4 BVRD2M4 Network Card
BVSMP Vigil 2 PSU/Charger Dual O/P
BVSMP1T Vigil 2 PSU/Charger Single O/P
BVLAM Impedance monitor
BVRDNCO Amp/Line Monitor (No Changeover)
BVRDACO Amp/Line Monitor (Automatic Changeover)
BVRDADC EVAS DC Line Monitor
BVRDADIM Master DC Line Monitor/Isolator/Changeover Module
BVRDADIS Slave DC Line Monitor/Isolator/Changeover Module
Certified with the following options with requirements from EN 54-16:
7.5 Phased evacuation
8.4 Indication of faults related to voice alarm zones
10. Voice alarm manual control
12 Emergency microphone(s)
13.14 Redundant power amplifiers

Notes:

- The Vigil 2 rack mount VACIE is approved when connected with the following monitoring modules
BEL1 EOL Monitor
BEL10 EOL Monitor x 10

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

- BEL1IP EOL Monitor (Weatherproof)
2. The VACIE speaker lines are monitored by use of the following modules namely BEL1, BEL10, BEL1IP in combination with a BVRDNCO or BVRDACO, or via a BVLAM, BVRDADC or BVRDADIM / BVRDADIS.
3. The VACIE was tested when connected to BVRAMB / BVRAMBIP Ambient Noise Sensing Microphone.
4. The following cabinets have been approved for use with Vigil 2 Rack Mounted VACIE when modified by Baldwin Boxall to meet IP30:-
- RK20UN
 - RK20UDN
 - RK25UN
 - RK25UDN
 - RK34UN
 - RK34UDN
 - RK38UN
 - RK38UDN
 - RK43UN
 - RK43UDN
 - RK47UN
 - RK47UDN

This certificate is valid only when the installation has been performed in accordance with the Vigil 2 Rack Mount VACIE EN54 System Design and Build Requirements LPCB. Vigil 2 Wall Mounting Networked Voice Alarm Control and Indicating Equipment

HFP VA-WMV2

164v/02

- BVECASE3 ECLIPSE3 c/w BVRD2M4 & BVL4
- BVECASE3FM Eclipse3 Fire Microphone Module (Red)
- BFM401 400 Series Fire Mic. Single Zone
- BFM404 400 Series Fire Mic 4 Zone
- BFM408 400 Series Fire Mic 8 Zone
- BMS8 Mic I/F Box RJ45 (BDM400 Series)
- BV050Q Vigil 2 50 Watt Quad Amplifier
- BV125D Vigil 125W Dual Amp
- BV225 Vigil 225W Amp
- BVRD2M4 DSP VA Mini Router (4 Channel)
- BVRD2M4ACO Amp/Line Monitor & Changeover Module for BVRD2M4
- BVRD8 Voice Alarm Mic 8 Zone
- BVRD16 Voice Alarm Mic 16 Zone
- BVRD24 Voice Alarm Mic 24 Zone
- BVRD32 Voice Alarm Mic 32 Zone
- BVRD40 Voice Alarm Mic 40 Zone
- BVRD48 Voice Alarm Mic 48 Zone
- BVRD56 Voice Alarm Mic 56 Zone
- BVRD64 Voice Alarm Mic 64 Zone
- BVRDCIF Copper Interface for BVRDNET
- BVRDFIF Fibre Optic Interface for BVRDNET (Multi Mode)
- BVRDFIFS Fibre Optic Interface for BVRDNET (Single Mode)
- BVRDNET2M4 BVRD2M4 Network Card
- BVSMP Vigil 2 PSU/Charger Dual O/P
- BVSMPLT Vigil 2 PSU/Charger Single O/P

Certified with the following options with requirements from EN 54-16:

- 7.5 Phased evacuation
- 8.4 Indication of faults related to voice alarm zones
- 10. Voice alarm manual control
- 12 Emergency microphone(s)
- 13.14 Redundant power amplifiers

Notes:

1. The Vigil 2 Eclipse 3 Wall Mounted VACIE is approved when connected with the following monitoring modules

- BEL1 EOL Monitor
- BEL10 EOL Monitor x 10
- BEL1IP EOL Monitor (Weatherproof)

2. The VACIE speaker lines are monitored by use of the following modules namely BEL1, BEL10, or BEL1IP.

The VACIE was tested when connected to BVRAMB / BVRAMBIP Ambient Noise Sensing Microphone.

HFP Latitude

- 2 to 8 Loop Analogue Addressable Control and Indicating Equipment
- 2 to 16 Loop Analogue Addressable Control and Indicating Equipment

360b/01

Incorporating the following units:

- S721 LCD Main Processor Board
- S722 Main Back Board
- S723 Network, Ethernet & IFAM Interface Module

Certificated Products

LPCB Ref.
No.

S758 Dual loop Module (Hochiki protocol)
S769 System Board A module
S770 System Board B Module
S771 Zone LED Board
S787 Vision Unit
S768 Thermal Printer Assembly
S406-06 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408 10.25 Amp Power Supply Unit
S772 16 Channel I/O card
S791 8w Relay card
S792 8w conventional zone card
S788 Media gateway card
S793 4w sounder card
S786 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.3 Output to type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition

Notes:

1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
4. The HFP Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

Honeywell Control Systems Ltd

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom
Tel: 01344 655609 • Fax: 01344 655474
Website: www.honeywell.com

Certificate No: 154g-(cl-1) to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref.
No.
154g/01

XLS80e Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment.
020-538-101 XLS80e Basic Equipment Kit, Group 1
020-538-103 XLS80e Basic Equipment Kit, Group 3
020-538-104 XLS80e Basic Equipment Kit, Group 4
020-538-105 XLS80e Basic Equipment Kit, Group 5

Incorporating the following as modular units:

Enclosures:
020-040-002 Cover Kit Extended Moulded, Light / Grey
020-472-002 Backbox Kit Standard, Light Grey
020-473-002 Backbox Kit Extended, Light Grey
020-474-002 Backbox Kit Extended Deep, Light Grey
020-475-002 Backbox Kit Double Extended, Light Grey
020-476-002 Backbox Kit Double Extended Deep, Light Grey
020-480-102 Main Cover Kit, Light / Grey

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

020-481-002	Extension Cover Kit, Light / Grey
020-509-002	Backbox Extension Deep Assembly Light / Grey
020-621-002	256 Zone Extension Cover, Light / Grey
020-541-102	PSU7A / 78Ah Battery Enclosure
Modules:	
020-708-100	Extension Chassis with Printer Kit
020-644-009	Printer Assembly
020-559-101	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-102	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612-100	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588-100	Honeywell Dual Loop Interface Board, (LIB)
020-549-100	Honeywell Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579	PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	XLS80e-NI Fibre Optic Interface Kit
020-647-100	XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel

Certified with the following options with requirements:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment
7.10.1	Output to fire protection equipment type A
7.10.3	Output to fire protection equipment type C
7.10.4	Fault monitoring of fire protection equipment
7.11	Delays to outputs
7.12.2	Dependency on more than one alarm signal type B
7.12.3	Dependency on more than one alarm signal type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disablesments of addressable points
10	Test condition

Note 1: Products are available in language variants as follows:

Group 1: English, Spanish, Portuguese, Icelandic and Italian

Group 3: English, Swedish, Danish, Norwegian and Finish

Group 4: English, Czech and Polish

Group 5: English and Cyrillic

XLS80e-2L

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.
Fixed build 2 loop analogue addressable control and indicating equipment.

154g/01

020-692	XLS80e-2L-1, 2 Loop, PSU3A, Group 1
020-692-103	XLS80e-2L-3, 2 Loop, PSU3A, Group 3
020-692-104	XLS80e-2L-4, 2 Loop, PSU3A, Group 4
020-692-105	XLS80e-2L-5, 2 Loop, PSU3A, Group 5

Incorporating the following as modular units:

Enclosures:

020-040-002	Cover Kit Extended Moulded, Light / Grey
020-472-002	Backbox Kit Standard, Light Grey
020-473-002	Backbox Kit Extended, Light Grey
020-474-002	Backbox Kit Extended Deep, Light Grey
020-475-002	Backbox Kit Double Extended, Light Grey
020-476-002	Backbox Kit Double Extended Deep, Light Grey
020-480-102	Main Cover Kit, Light / Grey
020-481-002	Extension Cover Kit, Light / Grey
020-509-002	Backbox Extension Deep Assembly Light / Grey
020-621-002	256 Zone Extension Cover, Light / Grey
020-541-102	PSU7A / 78Ah Battery Enclosure
Modules:	
020-708-100	Extension Chassis with Printer Kit
020-644-009	Printer Assembly
020-559-101	Zone Extension Chassis Kit 1-64 Zone C/W Display Module

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

020-559-102	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612-100	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588-100	Honeywell Dual Loop Interface Board, (LIB)
020-549-100	Honeywell Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579	PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	XLS80e-NI Fibre Optic Interface Kit
020-647-100	XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel

Certified with the following options with requirements:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output to fire protection equipment type A
- 7.10.3 Output to fire protection equipment type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablements of addressable points
- 10 Test condition

Note 1: Products are available in language variants as follows:

- Group 1: English, Spanish, Portuguese, Icelandic and Italian*
- Group 3: English, Swedish, Danish, Norwegian and Finish*
- Group 4: English, Czech and Polish*
- Group 5: English and Cyrillic*

XLS80e-4L

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

Fixed build 4 loop analogue addressable control and indicating equipment.

154g/01

020-693	XLS80e-4L-1, 4 Loop, PSU3A, Group 1
020-693-103	XLS80e-4L-3, 4 Loop, PSU3A, Group 3
020-693-104	XLS80e-4L-4, 4 Loop, PSU3A, Group 4
020-693-105	XLS80e-4L-5, 4 Loop, PSU3A, Group 5

Incorporating the following as modular units:

Enclosures:

020-040-002	Cover Kit Extended Moulded, Light / Grey
020-472-002	Backbox Kit Standard, Light Grey
020-473-002	Backbox Kit Extended, Light Grey
020-474-002	Backbox Kit Extended Deep, Light Grey
020-475-002	Backbox Kit Double Extended, Light Grey
020-476-002	Backbox Kit Double Extended Deep, Light Grey
020-480-102	Main Cover Kit, Light / Grey
020-481-002	Extension Cover Kit, Light / Grey
020-509-002	Backbox Extension Deep Assembly Light / Grey
020-621-002	256 Zone Extension Cover, Light / Grey
020-541-102	PSU7A / 78Ah Battery Enclosure

Modules:

020-708-100	Extension Chassis with Printer Kit
020-644-009	Printer Assembly
020-559-101	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-102	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612-100	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588-100	Honeywell Dual Loop Interface Board, (LIB)
020-549-100	Honeywell Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

020-648	PSU3A
020-579 Interface)	PSU7A, (Requires Dual Transmission Path / Booster, PSU
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	XLS80e-NI Fibre Optic Interface Kit
020-647-100 Panel	XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e

Certified with the following options with requirements:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment
7.10.1	Output to fire protection equipment type A
7.10.3	Output to fire protection equipment type C
7.10.4	Fault monitoring of fire protection equipment
7.11	Delays to outputs
7.12.2	Dependency on more than one alarm signal type B
7.12.3	Dependency on more than one alarm signal type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disablesments of addressable points
10	Test condition

Note 1: Products are available in language variants as follows:

- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finish
- Group 4: English, Czech and Polish
- Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

XLS80e-6L

Fixed build 6 loop analogue addressable control and indicating equipment.

154g/01

020-694	XLS80e-6L-1, 6 Loop, PSU7A, Group 1
020-694-103	XLS80e-6L-3, 6 Loop, PSU7A, Group 3
020-694-104	XLS80e-6L-4, 6 Loop, PSU7A, Group 4
020-694-105	XLS80e-6L-5, 6 Loop, PSU7A, Group 5

Incorporating the following as modular units:

Enclosures:

020-040-002	Cover Kit Extended Moulded, Light / Grey
020-472-002	Backbox Kit Standard, Light Grey
020-473-002	Backbox Kit Extended, Light Grey
020-474-002	Backbox Kit Extended Deep, Light Grey
020-475-002	Backbox Kit Double Extended, Light Grey
020-476-002	Backbox Kit Double Extended Deep, Light Grey
020-480-102	Main Cover Kit, Light / Grey
020-481-002	Extension Cover Kit, Light / Grey
020-509-002	Backbox Extension Deep Assembly Light / Grey
020-621-002	256 Zone Extension Cover, Light / Grey
020-541-102	PSU7A / 78Ah Battery Enclosure

Modules:

020-708-100	Extension Chassis with Printer Kit
020-644-009	Printer Assembly
020-559-101	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-102	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612-100	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588-100	Honeywell Dual Loop Interface Board, (LIB)
020-549-100	Honeywell Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579 Interface)	PSU7A, (Requires Dual Transmission Path / Booster, PSU
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	XLS80e-NI Fibre Optic Interface Kit

Certificated Products

LPCB Ref. No.

020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel

Certified with the following options with requirements:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output to fire protection equipment type A
- 7.10.3 Output to fire protection equipment type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of addressable points
- 10 Test condition

Note 1: Products are available in language variants as follows:

- Group 1: English, Spanish, Portuguese, Icelandic and Italian*
- Group 3: English, Swedish, Danish, Norwegian and Finish*
- Group 4: English, Czech and Polish*
- Group 5: English and Cyrillic*

XLS80e-8L

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

Fixed build 8 loop analogue addressable control and indicating equipment.

154g/01

- 020-695 XLS80e-8L-1, 8 Loop, PSU7A, Group 1
- 020-695-103 XLS80e-8L-3, 8 Loop, PSU7A, Group 3
- 020-695-104 XLS80e-8L-4, 8 Loop, PSU7A, Group 4
- 020-695-105 XLS80e-8L-5, 8 Loop, PSU7A, Group 5

Incorporating the following as modular units:

Enclosures:

- 020-040-002 Cover Kit Extended Moulded, Light / Grey
- 020-472-002 Backbox Kit Standard, Light Grey
- 020-473-002 Backbox Kit Extended, Light Grey
- 020-474-002 Backbox Kit Extended Deep, Light Grey
- 020-475-002 Backbox Kit Double Extended, Light Grey
- 020-476-002 Backbox Kit Double Extended Deep, Light Grey
- 020-480-102 Main Cover Kit, Light / Grey
- 020-481-002 Extension Cover Kit, Light / Grey
- 020-509-002 Backbox Extension Deep Assembly Light / Grey
- 020-621-002 256 Zone Extension Cover, Light / Grey
- 020-541-102 PSU7A / 78Ah Battery Enclosure

Modules:

- 020-708-100 Extension Chassis with Printer Kit
- 020-644-009 Printer Assembly
- 020-559-101 Zone Extension Chassis Kit 1-64 Zone C/W Display Module
- 020-559-102 Zone Extension Chassis Kit 65-128 Zone C/W Display Module
- 020-612-100 Double Extended Chassis Kit 256 Zone
- 020-708-009 Extension Chassis with Printer
- 020-644-009 Printer Assembly
- 020-588-100 Honeywell Dual Loop Interface Board, (LIB)
- 020-549-100 Honeywell Dual Enhanced Loop Interface Board, (ELIB)
- 020-478 RS232 Interface
- 020-479 RS485 Interface
- 020-648 PSU3A
- 020-579 PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
- 020-548 PSU7A Status Indication
- 020-543 Dual Transmission Path / Booster, PSU Interface
- 020-773 Routing Termination Unit (DEOL)
- 020-877 Extinguishing Interface Module M221-SI
- 020-643 XLS80e-NI Fibre Optic Interface Kit
- 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel

Certified with the following options with requirements:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output to fire protection equipment type A

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

- 7.10.3 Output to fire protection equipment type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of addressable points
- 10 Test condition

Note 1: Products are available in language variants as follows:

- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finnish
- Group 4: English, Czech and Polish
- Group 5: English and Cyrillic

XLS80e-NI

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.
002-467-002 Network Gateway Unit, (NGU) Honeywell Protocol

154g/NO1

Incorporating the following as modular units:

- 020-643 XLS80e- NI Fibre Optic Interface Kit
- 020-647-100 XLS80e-NI Network Gateway Module, (NGM) for use in XLS80e Panel
- 020-648 PSU3A

Note 1: Products are available in language variants as follows:

- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finnish
- Group 4: English, Czech and Polish
- Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

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Certificate No: 042cc to EN54-2: 1997 + A1: 2006 & EN54-4 + A1: 2002 + A2: 2006

Certificate No: 042cb to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

Vigilon Compactplus

One to Two Loop Analogue Addressable Control and Indicating Equipment

Incorporating the following modules:

- VCS-MCB-N PCB Assembly VIGILON COMPACT Network control
- VCS-PSU-N Power Supply Unit
- VCS-IDOOR-PLUS Display and Key card (DKC)
- COMPACT-LPC-EN Loop processor card
- COMPACT-NC Copper network card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 8.3 Fault signals from points
- 9.5 Disabling of each address point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

2. Scope of approval does not include the operation of the network functionality.

Vigilon Compactplus-PO

One to Two Loop Analogue Addressable Control and Indicating Equipment (Portuguese

042cb/02

Certificated Products

**LPCB Ref.
No.**

Language Variant)

Incorporating the following modules:

VCS-MCB-N PCB Assembly VIGILON COMPACT Network control
VCS-PSU-N Power Supply Unit
VCS-IDOOR-PLUS Display and Key card (DKC)
COMPACT-LPC-EN Loop processor card
COMPACT-NC Copper network card

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output type A
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal -Type C
8.3 Fault signals from points
9.5 Disablement of each address point
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

Vigilon Compactplus-SP

One to Two Loop Analogue Addressable Control and Indicating Equipment (Spanish Language Variant)

042cb/03

Incorporating the following modules:

VCS-MCB-N PCB Assembly VIGILON COMPACT Network control
VCS-PSU-N Power Supply Unit
VCS-IDOOR-PLUS Display and Key card (DKC)
COMPACT-LPC-EN Loop processor card
COMPACT-NC Copper network card

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.10.1 Output type A
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal -Type C
8.3 Fault signals from points
9.5 Disablement of each address point
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

VIGPLUS-24

One to Four Loop Analogue Addressable Control and Indicating Panel

042cc/01

Incorporating the following modules:

Vig-LPC-EN Vigilon Loop Card
Vigplus-MCC Local controller card
Vig-NC Copper network card
VS-PSU-24 Power supply unit
VS-BPlane Backplane
VS-IDOOR-PLUS Vigilon Display Board - D.K.C
VS-PRIN Printer Assembly
Vig-NC-SMF Single Mode Fibre Network Card

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal -Type C
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

VIGPLUS-24-NP

One to Four Loop Analogue Addressable Control and Indicating Panel (No Printer)

042cc/02

Incorporating the following modules:

- Vig-LPC-EN Vigilon Loop Card
- Vigplus-MCC Local controller card
- Vig-NC Copper network card
- VS-PSU-24 Power supply unit
- VS-BPlane Backplane
- VS-IDOOR-PLUS Vigilon Display Board - D.K.C
- Vig-NC-SMF Single Mode Fibre Network Card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal -Type C
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

VIGPLUS-24-PO

One to Four Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant)

042cc/03

Incorporating the following modules:

- Vig-LPC-EN Vigilon Loop Card
- Vigplus-MCC Local controller card
- Vig-NC Copper network card
- VS-PSU-24 Power supply unit
- VS-BPlane Backplane
- VS-IDOOR-PLUS Vigilon Display Board - D.K.C
- VS-PRIN Printer Assembly
- Vig-NC-SMF Single Mode Fibre Network Card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)

Certificated Products

**LPCB Ref.
No.**

- 7.9.1 Output to fire alarm routing equipment
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal -Type C
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

VIGPLUS-24-SP

One to Four Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant)

042cc/04

Incorporating the following modules:

- Vig-LPC-EN Vigilon Loop Card
- Vigplus-MCC Local controller card
- Vig-NC Copper network card
- VS-PSU-24 Power supply unit
- VS-BPlane Backplane
- VS-IDOOR-PLUS Vigilon Display Board - D.K.C
- VS-PRIN Printer Assembly
- Vig-NC-SMF Single Mode Fibre Network Card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal -Type C
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

VIGPLUS-72

One to Six Loop Analogue Addressable Control and Indicating Panel

042cc/05

Incorporating the following modules:

- Vig-LPC-EN Vigilon Loop Card
- Vigplus-MCC Local controller card
- Vig-NC Copper network card
- VS-PSU-72 Power supply unit
- VS-BPlane Backplane
- VS-IDOOR-PLUS Vigilon Display Board - D.K.C
- VS-PRIN Printer Assembly
- Vig-NC-SMF Single Mode Fibre Network Card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.10.1 Output type A

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

- 7.11 *Delays to outputs*
- 7.12.2 *Dependencies on more than one alarm signal - Type B*
- 7.12.3 *Dependencies on more than one alarm signal -Type C*
- 8.3 *Fault signals from points*
- 9.5 *Disablement of each address point*
- 10 *Test condition*

Notes:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*
2. *Scope of approval does not include the operation of the network functionality.*

VIGPLUS-72-PO

One to Six Loop Analogue Addressable Control and Indicating Panel (Portuguese Language Variant)

042cc/06

Incorporating the following modules:

- Vig-LPC-EN Vigilon Loop Card*
- Vigplus-MCC Local controller card*
- Vig-NC Copper network card*
- VS-PSU-72 Power supply unit*
- VS-BPlane Backplane*
- VS-IDOOR-PLUS Vigilon Display Board - D.K.C*
- VS-PRIN Printer Assembly*
- Vig-NC-SMF Single Mode Fibre Network Card*

Certified with the following options with requirements from EN54-2:

- 7.8 *Output to fire alarm device(s)*
- 7.9.1 *Output to fire alarm routing equipment*
- 7.10.1 *Output type A*
- 7.11 *Delays to outputs*
- 7.12.2 *Dependencies on more than one alarm signal - Type B*
- 7.12.3 *Dependencies on more than one alarm signal -Type C*
- 8.3 *Fault signals from points*
- 9.5 *Disablement of each address point*
- 10 *Test condition*

Notes:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*
2. *Scope of approval does not include the operation of the network functionality.*

VIGPLUS-72-SP

One to Six Loop Analogue Addressable Control and Indicating Panel (Spanish Language Variant)

042cc/07

Incorporating the following modules:

- Vig-LPC-EN Vigilon Loop Card*
- Vigplus-MCC Local controller card*
- Vig-NC Copper network card*
- VS-PSU-72 Power supply unit*
- VS-BPlane Backplane*
- VS-IDOOR-PLUS Vigilon Display Board - D.K.C*
- VS-PRIN Printer Assembly*
- Vig-NC-SMF Single Mode Fibre Network Card*

Certified with the following options with requirements from EN54-2:

- 7.8 *Output to fire alarm device(s)*
- 7.9.1 *Output to fire alarm routing equipment*
- 7.10.1 *Output type A*
- 7.11 *Delays to outputs*

Certificated Products

**LPCB Ref.
No.**

- 7.12.2 *Dependencies on more than one alarm signal - Type B*
- 7.12.3 *Dependencies on more than one alarm signal - Type C*
- 8.3 *Fault signals from points*
- 9.5 *Disabling of each address point*
- 10 *Test condition*

Notes:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*
2. *Scope of approval does not include the operation of the network functionality.*

INIM Electronics S.R.L

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Certificate No: 991k to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006, EN 54-21:2006 & EN 12094-1:2003

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**
991k/01

PREVIDIA216

2 - 16 Loop Analogue Addressable Control and Indicating Equipment and Extinguishing Control Panel (e.c.d)

Incorporating the following modular units:

IFM24160 CAN power-supply module
IFM2L CAN module with 2 loops
IFMNET CAN module for Hornet network connection
IFM4R CAN module with 4 relays
IFM4IO CAN module with 4 I/O
IFMDIAL CAN dialler module
IFM16IO CAN module with 16 I/O
IFMLAN CAN LAN module
IFMEXT CAN extinguishant module
FPMCPU CPU module
FPMLED LED module
FPMLEDPRN LED module with printer
FPMEXT LED module for extinguishant module

Optional colour variant;
PREVIDIA216R Red Cabinet

Incorporating the following mechanical units:

FPMNUL Blind-plate module
PRCAB Spare cabinet
PRCABR Spare Cabinet RED
PRREP Metal box for FPMCPU assembly in REPEATER configuration
PRCABSP SPACER For back cabinet
PRCABSPR SPACER For back cabinet Red Colour

Certified with the following options with requirements from EN 54-2:1997 + A1: 2002 + A2: 2006:

- 7.8 Output to fire alarm devices (option with requirements)
- 7.9.1 Output to fire alarm routing equipment (option with requirements)
- 7.9.2 Alarm confirmation input from fire alarm routing equipment (option with requirements)
- 7.10 Outputs to fire protection equipment (options with requirements)
- 7.10.1 Output type A (option with requirement)
- 7.10.2 Output type B (option with requirement)
- 7.10.3 Output type C (option with requirement)
- 7.10.4 Fault monitoring of fire protection equipment (option with requirement)
- 7.11 Delays to outputs (option with requirements)
- 7.12 Dependencies on more than one alarm signal (option with requirements)
- 7.12.1 Type A dependency (option with requirement)

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

- 7.12.2 Type B dependency (option with requirement)
- 7.12.3 Type C dependency (option with requirement)
- 7.13 Alarm Counter (option with requirements)
- 8.3 Fault signals from points (option with requirements)
- 8.9 Output to fault warning routing equipment(option with requirements)
- 9.5 Disabling of addressable point (option with requirements)
- 10 Test condition (option with requirements)

Certified with the following options with requirements from EN 12094-1:2003

- 4.17 Delay of extinguishing signal
- 4.18 Signal representing the flow of extinguishing agent
- 4.19 Monitoring of the status of components
- 4.20 Emergency hold device
- 4.21 Control of flooding time
- 4.22 Initiation of secondary flooding
- 4.24 Triggering signals to equipment within the system
- 4.26 Triggering of equipment outside the system
- 4.27 Emergency abort device
- 4.28 Control of extended discharge
- 4.29 Release of the extinguishing media for selected flooding zones
- 4.30 Activation of alarm devices with different signals

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*
3. *The e.c.d is approved to EN12094-1 for more than 1 flooding zone when 2 FPMCPU modules are used.*
4. *The CIE is also approved when connected with FPMCPU as a CPU /Repeater module.*

International Safety Technology Ltd

Unit 3, Horton Industrial Estate, West Drayton, Middlesex UB7 8JD, United Kingdom

Tel: 01895 424503

Website: www.ist-limited.com

Certificate No: 810m-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.
810m/01

IST-1 / IST-1K

IST-1 1 Zone Conventional Fire Alarm Control Panel
IST-1K 1 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch
Incorporating the following modules:
RS-35-24 1.5amp Internal Power Supply Module
TPCA024-1 1 Zone Main PCB

Incorporating the following optional modules:
SWK107 Activate Control Key Switch

Certified with the following options with requirements from EN54 Part 2:

- 7.8 Output to fire alarm devices
- 10 Test condition

Notes:

1. *The scope of the approval does not include the operation of the network functionality*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

IST-2 / IST-2K

IST-2 2 Zone Conventional Fire Alarm Control Panel
IST-2K 2 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch
Incorporating the following modules:
RS-35-24 1.5amp Internal Power Supply Module
TPCA024-2 2 Zone Main PCB

Incorporating the following optional modules:
SWK107 Activate Control Key Switch

810m/02

Certificated Products

**LPCB Ref.
No.**

	Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition Notes: 1. <i>The scope of the approval does not include the operation of the network functionality</i> 2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
IST-4 / IST-4K	IST-4 4 Zone Conventional Fire Alarm Control Panel IST-4K 4 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-4 4 Zone Main PCB Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition Notes: 1. <i>The scope of the approval does not include the operation of the network functionality</i> 2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	810m/03
IST-8 / IST-8K	IST-8 8 Zone Conventional Fire Alarm Control Panel IST-8K 8 Zone Conventional Fire Alarm Control Panel with Activate Control Key Switch Incorporating the following modules: RS-35-24 1.5amp Internal Power Supply Module TPCA024-8 8 Zone Main PCB TPCA025 Expansion Card Incorporating the following optional modules: SWK107 Activate Control Key Switch Certified with the following options with requirements from EN54 Part 2: 7.8 Output to fire alarm devices 10 Test condition Notes: 1. <i>The scope of the approval does not include the operation of the network functionality</i> 2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	810m/04

Kentec Electronics Limited

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Certificate No: 360b to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Certificate No: 360d to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006, EN 12094-1:2003

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

Taktis	2 to 8 Loop Analogue Addressable Control and Indicating Equipment 2 to 16 Loop Analogue Addressable Control and Indicating Equipment Incorporating the following units: S721 LCD Main Processor Board S722 Main Back Board	360b/01
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PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

S723 Taktis Network, Ethernet & IFAM Interface Module
S758 Dual loop Module
S769 System Board A module
S770 System Board B Module
S771 Zone LED Board
S787 Taktis Vision Unit
S768 Taktis Thermal Printer Assembly
S406-06 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408-10 10.25 Amp Power Supply
S772 16 Channel I/O card
S791 8w Relay card
S792 8w conventional zone card
S788 Media gateway card
S793 4w sounder card
S786 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.3 Output to type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of addressable points
10 Test condition

Notes:

1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
4. The Hochiki Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

Sigma ZXT

Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d)
Incorporating the following modules:
S2022 Mainboard
S406 5.25 Amp Power Supply Unit
S420 2 Amp Power Supply Unit

360d/01

The Sigma ZXT has different part numbers which are details below:

K192311XM2 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Standard Enclosure, 2A PSU
K192311XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 2A PSU
K195311XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 5A PSU
K192312XM2 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Standard Enclosure, 2A PSU, Nordic Key Switch
K192312XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 2A PSU, Nordic Key Switch
K195312XM3 Conventional 3 Zone Control and Indicating Equipment & 1 Flooding Zone Class A Extinguishant Control Panel (e.c.d), Large Enclosure, 5A PSU, Nordic Key Switch

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm devices
7.11 Delays to outputs
10 Test condition

Certificated Products

LPCB Ref. No.

Certified with the following Options with requirements from EN 12094-1:2003
 4.17 Delay of extinguishing signal
 4.18 Signal representing the flow of extinguishing agent
 4.19 Monitoring of the status of components
 4.20 Emergency hold device
 4.21 Control of flooding time
 4.23 Manual mode only
 4.25 Extinguishing signals to spare cylinders
 4.27 Emergency abort device
 4.30 Activation of alarm devices with different signals

Notes:

1. *Scope of certification does not include the operation of the network functionality.*
2. *This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*
3. *The Sigma ZXT is certified with the M2 (standard) & M3 (large) enclosure*
4. *The S420 PSE can be fitted in either a M2 or M3 cabinet. The S406 can only be fitted in a M3 cabinet.*

KMW Systems S.R.L.

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Tel: 0040232247288

E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174e-(cl-7) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Certificate No: 1174j-(cl-4) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.

KM-FC5016

Incorporating the following units:
 VSL2.908.004 16 Zone Control Board
 VSL2.908.007 16 Zone Display Board
 PD-100-24 AC/DC Power Supply Module
 VSL2.908.005 16 Zone Signal Output Board

1174e/01

Certified with the following Options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.11 Delay to outputs
- 10 Test condition

Note:

1. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

KM-FC5008

8 Zone Conventional Control and Indicating Equipment

1174e/02

Incorporating the following units:
 VSL2.908.042 8 Zone Control Board
 VSL2.908.043 8 Zone Display Board
 PD-100-24 AC/DC Power Supply Module

Certified with the following Options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.11 Delay to outputs
- 10 Test condition

Note:

1. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

KM-FC5004

4 Zone Conventional Control and Indicating Equipment

1174e/03

Incorporating the following units:
 VSL2.908.044 4 Zone Control Board
 VSL2.908.045 4 Zone Display Board
 PD-100-24 AC/DC Power Supply Module

Certified with the following Options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.11 Delay to outputs

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
	10 Test condition	
	Note:	
	1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
KM-FC5002	2 Zone Conventional Control and Indicating Equipment	1174e/04
	Incorporating the following units:	
	VSL2.908.046 2 Zone Control Board	
	VSL2.908.047 2 Zone Display Board	
	PD-100-24 AC/DC Power Supply Module	
	Certified with the following Options with requirements from EN 54-2:1997	
	7.8 Output to fire alarm device(s)	
	7.11 Delay to outputs	
	10 Test condition	
	Note:	
	1. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
KM-FA6000	4 Loop Analogue Addressable Control and Indicating Equipment	1174j/01
	Incorporating the following modules:	
	VSL2.908.146 Main Board	
	VSL2.908.149 Indication board	
	VSL2.908.155 Terminal board	
	VSL2.908.162 Control Board	
	VSL2.908.153 Loop Card	
	VSL2.908.152 I/O Board	
	VSL2.908.169 Power Board	
	VSL7-820-150 Zone Board	
	VSL7-820-154 Network Card	
	LRS-150-24 MEAN-WELL Power Supply module	
	Certified with the following option with requirements for EN54-2:	
	7.8 Output to fire alarm devices	
	7.10.1 Outputs to fire protection equipment (Type A)	
	7.10.2 Outputs to fire protection equipment (Type B)	
	7.10.3 Outputs to fire protection equipment (Type C)	
	7.10.4 Fault monitoring of fire protection equipment	
	7.11 Delays to outputs	
	7.12.1 Dependencies on more than one alarm signal (Type A dependency)	
	7.12.2 Dependencies on more than one alarm signal (Type B dependency)	
	7.12.3 Dependencies on more than one alarm signal (Type C dependency)	
	7.13 Alarm Counter	
	9.5 Disablement of addressable point	
	10 Test condition	
	Notes:	
	1. <i>The scope of the approval does not include the operation of the network functionality</i>	
	2. <i>This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.</i>	

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Certificate No: 926d to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 926n to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006, EN 12094-1: 2003

Certificated Products		LPCB Ref. No.
ML-1231.EN	Maxlogic intelligent analogue addressable 1 Loop, 127 addressable devices, 64 Zone control and indicating equipment.	926d/01
	Incorporating the following units:	

Certificated Products

**LPCB Ref.
No.**

MLY-1202.EN Main MCU module
 MLY-1203 Zone LED module
 MLY-1200 SLCU module
 MLY-0500-EN PSU unit
 ML-1201 Optional Network module
 542.188 Optional Turkish text membrane
 542.189 Optional English text membrane
 542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
 7.9.1 Output to fire alarm routing equipment
 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
 7.12.1 Dependencies on more than one alarm signal - Type A
 7.12.2 Dependencies on more than one alarm signal - Type B
 7.12.3 Dependencies on more than one alarm signal - Type C
 7.13 Alarm counter
 8.3 Fault signals from points
 9.5 Disablement of each address point
 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

ML-1241.P.EN

Maxlogic intelligent analogue addressable 1 Loop, 127addressable devices, 64 Zone control and indicating equipment with printer

926d/01

Incorporating the following units:

MLY-1202.EN Main MCU module
 MLY-1203 Zone LED module
 MLY-1200 SLCU module
 MLY-0500-EN PSU unit
 ML-1203 Printer module
 ML-1201 Optional Network module
 542.188 Optional Turkish text membrane
 542.189 Optional English text membrane
 542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
 7.9.1 Output to fire alarm routing equipment
 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
 7.12.1 Dependencies on more than one alarm signal - Type A
 7.12.2 Dependencies on more than one alarm signal - Type B
 7.12.3 Dependencies on more than one alarm signal - Type C
 7.13 Alarm counter
 8.3 Fault signals from points
 9.5 Disablement of each address point
 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

ML-1232.EN

Maxlogic intelligent analogue addressable 2 Loop, 254 addressable devices, 64 Zone control and indicating equipment

926d/02

Incorporating the following units:

MLY-1202.EN Main MCU module
 MLY-1203 Zone LED module
 MLY-1200 SLCU module
 MLY- 0500-EN PSU unit
 ML-1201 Optional Network module
 542.188 Optional Turkish text membrane
 542.189 Optional English text membrane
 542.190 Optional Russian text membrane

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Certified with the following options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

ML-1242.P.EN

Maxlogic intelligent analogue addressable 2 Loop, 254 addressable devices, 64 Zone control and indicating equipment with printer.

926d/02

Incorporating the following units:

- MLY-1202.EN Main MCU module
- MLY-1203 Zone LED module
- MLY-1200 SLCU module
- MLY- 0500-EN PSU unit
- ML-1203 Printer module
- ML-1201 Optional Network module
- 542.188 Optional Turkish text membrane
- 542.189 Optional English text membrane
- 542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

ML-1233.EN

Maxlogic intelligent analogue addressable 3 Loop, 381 addressable devices, 64 Zone control and indicating equipment.

926d/03

Incorporating the following units:

- MLY-1202.EN Main MCU module
- MLY-1203 Zone LED module
- MLY-1200 SLCU module
- MLY- 0500-EN PSU unit
- ML-1201 Optional Network module
- 542.188 Optional Turkish text membrane
- 542.189 Optional English text membrane
- 542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to the auctioning of outputs fire alarm devices and

Certificated Products

**LPCB Ref.
No.**

- fire routing equipment
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

ML-1243.P.EN

Maxlogic intelligent analogue addressable 3 Loop, 381 addressable devices, 64 Zone control and indicating equipment with printer.

926d/03

Incorporating the following units:

- MLY-1202.EN Main MCU module
- MLY-1203 Zone LED module
- MLY-1200 SLCU module
- MLY- 0500-EN PSU unit
- ML-1203 Printer module
- ML-1201 Optional Network module
- 542.188 Optional Turkish text membrane
- 542.189 Optional English text membrane
- 542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.*

ML-1234.EN

Maxlogic intelligent analogue addressable 4 Loop, 508 addressable devices, 64 Zone CIE

926d/04

Incorporating the following units:

- MLY-1202.EN Main MCU module
- MLY-1203 Zone LED module
- MLY-1200 SLCU module
- MLY- 0500-EN PSU unit
- ML-1201 Optional Network module
- 542.188 Optional Turkish text membrane
- 542.189 Optional English text membrane
- 542.190 Optional Russian text membrane

Certified with the following options with requirements from EN 54-2:1997

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.																																						
ML-1244.P.EN	<p><i>Notes:</i></p> <ol style="list-style-type: none">1. <i>Scope of approval does not include the operation of the network functionality.</i>2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.</i> <p>Maxlogic intelligent analogue addressable 4 Loop, 508 addressable devices, 64 Zone control and indicating equipment with printer.</p> <p>Incorporating the following units:</p> <table><tr><td>MLY-1202.EN</td><td>Main MCU module</td></tr><tr><td>MLY-1203</td><td>Zone LED module</td></tr><tr><td>MLY-1200</td><td>SLCU module</td></tr><tr><td>MLY-0500-EN</td><td>PSU unit</td></tr><tr><td>ML-1203</td><td>Printer module</td></tr><tr><td>ML-1201</td><td>Optional Network module</td></tr><tr><td>542.188</td><td>Optional Turkish text membrane</td></tr><tr><td>542.189</td><td>Optional English text membrane</td></tr><tr><td>542.190</td><td>Optional Russian text membrane</td></tr></table> <p>Certified with the following options with requirements from EN 54-2:1997</p> <table><tr><td>7.8</td><td>Output to fire alarm device(s)</td></tr><tr><td>7.9.1</td><td>Output to fire alarm routing equipment</td></tr><tr><td>7.11</td><td>Delays to the auctioning of outputs fire alarm devices and fire routing equipment</td></tr><tr><td>7.12.1</td><td>Dependencies on more than one alarm signal - Type A</td></tr><tr><td>7.12.2</td><td>Dependencies on more than one alarm signal - Type B</td></tr><tr><td>7.12.3</td><td>Dependencies on more than one alarm signal - Type C</td></tr><tr><td>7.13</td><td>Alarm counter</td></tr><tr><td>8.3</td><td>Fault signals from points</td></tr><tr><td>9.5</td><td>Disablement of each address point</td></tr><tr><td>10</td><td>Test condition</td></tr></table> <p><i>Notes:</i></p> <ol style="list-style-type: none">1. <i>Scope of approval does not include the operation of the network functionality.</i>2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.</i>	MLY-1202.EN	Main MCU module	MLY-1203	Zone LED module	MLY-1200	SLCU module	MLY-0500-EN	PSU unit	ML-1203	Printer module	ML-1201	Optional Network module	542.188	Optional Turkish text membrane	542.189	Optional English text membrane	542.190	Optional Russian text membrane	7.8	Output to fire alarm device(s)	7.9.1	Output to fire alarm routing equipment	7.11	Delays to the auctioning of outputs fire alarm devices and fire routing equipment	7.12.1	Dependencies on more than one alarm signal - Type A	7.12.2	Dependencies on more than one alarm signal - Type B	7.12.3	Dependencies on more than one alarm signal - Type C	7.13	Alarm counter	8.3	Fault signals from points	9.5	Disablement of each address point	10	Test condition	926d/04
MLY-1202.EN	Main MCU module																																							
MLY-1203	Zone LED module																																							
MLY-1200	SLCU module																																							
MLY-0500-EN	PSU unit																																							
ML-1203	Printer module																																							
ML-1201	Optional Network module																																							
542.188	Optional Turkish text membrane																																							
542.189	Optional English text membrane																																							
542.190	Optional Russian text membrane																																							
7.8	Output to fire alarm device(s)																																							
7.9.1	Output to fire alarm routing equipment																																							
7.11	Delays to the auctioning of outputs fire alarm devices and fire routing equipment																																							
7.12.1	Dependencies on more than one alarm signal - Type A																																							
7.12.2	Dependencies on more than one alarm signal - Type B																																							
7.12.3	Dependencies on more than one alarm signal - Type C																																							
7.13	Alarm counter																																							
8.3	Fault signals from points																																							
9.5	Disablement of each address point																																							
10	Test condition																																							
MI-22102	<p>Maxlogic Two Zone Conventional Control and Indicating Equipment</p> <p><i>Incorporating the units:</i></p> <table><tr><td>ML-221XX_V1.1 / ML-22102</td><td>Main Board Module</td></tr><tr><td>MLY-0511_V1 / MLY-0511</td><td>Power Supply Board</td></tr></table> <p><i>and as optional modules:</i></p> <table><tr><td>542.212 / ML-22102</td><td>English text membrane</td></tr><tr><td>542.211 / ML-22102</td><td>Turkish text membrane</td></tr><tr><td>542.213 / ML-22102</td><td>Russian text membrane</td></tr></table> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <table><tr><td>7.8</td><td>Output to fire alarm devices</td></tr></table>	ML-221XX_V1.1 / ML-22102	Main Board Module	MLY-0511_V1 / MLY-0511	Power Supply Board	542.212 / ML-22102	English text membrane	542.211 / ML-22102	Turkish text membrane	542.213 / ML-22102	Russian text membrane	7.8	Output to fire alarm devices	926d/05																										
ML-221XX_V1.1 / ML-22102	Main Board Module																																							
MLY-0511_V1 / MLY-0511	Power Supply Board																																							
542.212 / ML-22102	English text membrane																																							
542.211 / ML-22102	Turkish text membrane																																							
542.213 / ML-22102	Russian text membrane																																							
7.8	Output to fire alarm devices																																							
MI-22104	<p>Maxlogic Four Zone Conventional Control and Indicating Equipment</p> <p><i>Incorporating the units:</i></p> <table><tr><td>ML-221XX_V1.1 / ML-22104</td><td>Main Board Module</td></tr><tr><td>MLY-0511_V1 / MLY-0511</td><td>Power Supply Board</td></tr></table> <p><i>and as optional modules:</i></p> <table><tr><td>542.215 / ML-22104</td><td>English text membrane</td></tr><tr><td>542.214 / ML-22104</td><td>Turkish text membrane</td></tr><tr><td>542.216 / ML-22104</td><td>Russian text membrane</td></tr></table> <p>Certified with the following options with requirements from EN 54-2: 1997</p> <table><tr><td>7.8</td><td>Output to fire alarm devices</td></tr></table>	ML-221XX_V1.1 / ML-22104	Main Board Module	MLY-0511_V1 / MLY-0511	Power Supply Board	542.215 / ML-22104	English text membrane	542.214 / ML-22104	Turkish text membrane	542.216 / ML-22104	Russian text membrane	7.8	Output to fire alarm devices	926d/06																										
ML-221XX_V1.1 / ML-22104	Main Board Module																																							
MLY-0511_V1 / MLY-0511	Power Supply Board																																							
542.215 / ML-22104	English text membrane																																							
542.214 / ML-22104	Turkish text membrane																																							
542.216 / ML-22104	Russian text membrane																																							
7.8	Output to fire alarm devices																																							
MI-22108	<p>Maxlogic Eight Zone Conventional Control and Indicating Equipment</p> <p><i>Incorporating the units:</i></p> <table><tr><td>ML-221XX_V1.1 / ML-22108</td><td>Main Board Module</td></tr><tr><td>MLY-0511_V1 / MLY-0511</td><td>Power Supply Board</td></tr></table> <p><i>and as optional modules:</i></p> <table><tr><td>542.218 / ML-22108</td><td>English text membrane</td></tr><tr><td>542.217 / ML-22108</td><td>Turkish text membrane</td></tr><tr><td>542.219 / ML-22108</td><td>Russian text membrane</td></tr></table>	ML-221XX_V1.1 / ML-22108	Main Board Module	MLY-0511_V1 / MLY-0511	Power Supply Board	542.218 / ML-22108	English text membrane	542.217 / ML-22108	Turkish text membrane	542.219 / ML-22108	Russian text membrane	926d/07																												
ML-221XX_V1.1 / ML-22108	Main Board Module																																							
MLY-0511_V1 / MLY-0511	Power Supply Board																																							
542.218 / ML-22108	English text membrane																																							
542.217 / ML-22108	Turkish text membrane																																							
542.219 / ML-22108	Russian text membrane																																							
MI-22116	<p>Maxlogic Sixteen Zone Conventional Control and Indicating Equipment</p> <p><i>Incorporating the units:</i></p>	926d/08																																						

Certificated Products

**LPCB Ref.
No.**

ML-322	<p>ML-221XX_V1.1 / ML-22116 ML_Zone_Extend_V1 / ML-22116 MLY-0511_V1 / MLY-0511</p> <p>and as optional modules: 542.221 / ML-22116 542.220 / ML-22116 542.222 / ML-22116</p> <p>Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices Maxlogic Conventional 4 Zone Control and Indicating Equipment and 1 Flooding Zone Extinguishing Control Panel (e.c.d) Notes: Incorporating the following modules: ML-32X41 V2.1 Main Board Module MLY-0511 V1 Power Supply Board</p> <p>Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 10 Test condition</p> <p>Certified with the following options with requirements from EN 12094-1: 4.17 Delay of extinguishing signal 4.18 Signal representing the flow of extinguishing agent 4.19 Monitoring of the status of components 4.20 Emergency hold device 4.21 Control of flooding time 4.23 Manual only mode 4.26 Triggering of equipment outside the system 4.30 Activation of alarm devices with different signals</p>	<p>Main Board Module Expansion Board Module Power Supply Board</p> <p>English text membrane Turkish text membrane Russian text membrane</p> <p>926n/01</p>
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Morley-IAS by Honeywell, Pittway Tecnologica Srl

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Certificate No: 429c to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

**LPCB Ref.
No.**
429c/04

ZX1Se	<p>1 loop analogue addressable control and indicating equipment</p> <p>722-001-301 1 loop multi-protocol control panel, language group M100 722-001-302 1 loop multi-protocol control panel, language group M200 722-002-301 1 loop multi-protocol control panel, language group M100, Stainless Steel 722-101-301 1 loop multi-protocol control panel, language group H100 722-101-302 1 loop multi-protocol control panel, language group H200</p> <p>Incorporating the following units:</p> <p>795-072-100 Morley-IAS Loop Driver Card 795-068-100 System Sensor Loop Driver Card 795-058-105 Hochiki Loop Driver Card 795-066-100 Apollo XP95 / Discovery Loop Driver Card 795-044-001 Nittan Loop Driver Card 795-004-001 RS 485 Communication Module 795-005 RS232 Communication Module 124-206 Processor Card 124-209-005 1 Loop Base Card 124-370 4 Line Display Card PS82-2-NFR 2A PSU</p> <p>Certified with the following options with requirements from EN 54-2:7.8 Output to fire alarm devices</p>
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PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
	7.11 Delays to outputs 7.12.3 Dependency on more than one alarm signal: Type C 8.3 Fault signals from points 9.5 Disabling of addressable points 10 Test condition	
ZX2Se	1-2 loop analogue addressable control and indicating equipment	429c/05
	720-001-301 1-2 loop multi-protocol control panel, language group M100 720-001-302 1-2 loop multi-protocol control panel, language group M200 720-002-301 1-2 loop multi-protocol control panel, language group M100, Stainless Steel 720-101-301 1-2 loop multi-protocol control panel, language group H100 720-101-302 1-2 loop multi-protocol control panel, language group H200 Incorporating the following units: 795-072-100 Morley-IAS Loop Driver Card 795-068-100 System Sensor Loop Driver Card 795-058-105 Hochiki Loop Driver Card 795-066-100 Apollo XP95 / Discovery Loop Driver Card 795-044-001 Nittan Loop Driver Card 795-004-001 RS 485 Communication Module 795-005 RS232 Communication Module 124-206 Processor Card 124-209-004 2 Loop Base Card 124-370 4 Line Display Card PS82-2-NFR 2A PSU	
	Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.3 Dependency on more than one alarm signal: Type C 8.3 Fault signals from points 9.5 Disabling of addressable points 10 Test condition	
ZX5Se	1-5 loop analogue addressable control and indicating equipment	429c/06
	721-001-301 1-5 loop multi-protocol control panel, language group M100 721-001-302 1-5 loop multi-protocol control panel, language group M200 721-002-301 1-5 loop multi-protocol control panel, language group M100, Stainless Steel 721-101-301 1-5 loop multi-protocol control panel, language group H100 721-101-302 1-5 loop multi-protocol control panel, language group H200 Incorporating the following units: 795-072-100 Morley-IAS Loop Driver Card 795-068-100 System Sensor Loop Driver Card 795-058-105 Hochiki Loop Driver Card 795-066-100 Apollo XP95 / Discovery Loop Driver Card 795-044-001 Nittan Loop Driver Card 795-004-001 RS 485 Communication Module 795-005 RS232 Communication Module 795-077-020 20 Zone LED Display Indicator Card 795-077-060 60 Zone LED Display Indicator Card 795-051-001 Internal Printer Module 124-206 Processor Card 124-403 5 Loop Base Card 124-370 4 Line Display Card PS196-4-NFR PSU	
	Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.3 Dependency on more than one alarm signal: Type C 8.3 Fault signals from points 9.5 Disabling of addressable points 10 Test condition	
HRZ2-8e 2 Zone	002-479-122 Language region 1, English manual 002-479-222 Language region 2 002-479-322 Language region 3, dual relay 002-492-222 Language region 2, English manual, dual relay 002-506-222 Language region 2, English manual	429c/10

Certificated Products

**LPCB Ref.
No.**

HRZ2-8e 4 Zone	<p>Incorporating the following units: 020-747 8-way relay kit 020-772 4-way monitored sounder kit</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition 002-479-142 Language region 1, English manual 002-479-242 Language region 2 002-479-342 Language region 3, dual relay 002-492-242 Language region 2, English manual, dual relay 002-506-242 Language region 2, English manual</p> <p>Incorporating the following units: 020-747 8-way relay kit 020-772 4-way monitored sounder kit</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition 002-479-182 Language region 1, English manual 002-479-282 Language region 2 002-479-382 Language region 3, dual relay 002-492-282 Language region 2, English user manual, dual relay 002-506-282 Language region 2, English user manual</p> <p>Incorporating the following units: 020-747 8-way relay kit 020-772 4-way monitored sounder kit</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to automatic fire protection equipment: Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4 Fault monitoring of fire protection equipment 7.11.1 Delays to outputs 7.11.2 Manual or automatic switching of delays to outputs 7.12.2 Dependency on more than one alarm signal: Type B 8.9 Output to fault warning routing equipment 10 Test condition</p> <p>Single loop control and indicating equipment</p> <p>714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (MIAS protocol) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (MIAS protocol) 714-001-114 PANEL DXc1-S SINGLE LOOP REGION 4 (MIAS protocol) 714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (MIAS protocol)</p> <p>Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB</p>	<p>429c/11</p> <p>429c/12</p> <p>429c/13</p>
DXc1-S	<p>Single loop control and indicating equipment</p> <p>714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (MIAS/Apollo/System Sensor protocol) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (MIAS protocol) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (MIAS protocol) 714-001-114 PANEL DXc1-S SINGLE LOOP REGION 4 (MIAS protocol) 714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (MIAS protocol)</p> <p>Incorporating as modular units: 124-410-001 Base PCB 1 Loop 124-411 Display PCB</p>	<p>429c/13</p>

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

010-115 PSU RS-50-24

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disablement of each address points
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The regions are related to different market areas

DXc2-M

Two loop control and indicating equipment

429c/14

- 714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (MIAS/Apollo/System Sensor protocol)
- 714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (MIAS protocol)
- 714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (MIAS protocol)
- 714-001-224 PANEL DXc2-M TWO LOOP REGION 4 (MIAS protocol)
- 714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (MIAS protocol)
- 714-001-226 PANEL DXc2-M TWO LOOP REGION 6 (System Sensor protocol)

Incorporating as modular units:

- 124-410 Base PCB 2 Loop
- 124-411 Display PCB
- 010-116 PSU RS-100-24

Incorporating as optional modular units:

- 124-414 DXn Zone Expansion PCB
- 124-429 Loop Splitter PCB
- 124-430 DXc System I/O PCB (note: cannot be fitted with 124-414)
- 124-300 RS232 I/F

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output to fire protection equipment - Output type A
- 7.10.2 Output to fire protection equipment - Output type B
- 7.10.3 Output to fire protection equipment - Output type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each address points
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The regions are related to different market areas.

DXc4-M

Four loop control and indicating equipment

429c/15

- 714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (MIAS/Apollo/System Sensor protocol)
- 714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (MIAS protocol)
- 714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (MIAS protocol)
- 714-001-244 PANEL DXc4-M FOUR LOOP REGION 4 (MIAS protocol)
- 714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (MIAS protocol)

Certificated Products

**LPCB Ref.
No.**

Incorporating as modular units:

124-410 Base PCB 2 Loop
124-411 Display PCB
124-417 2 Loop PCB
010-116 PSU RS-100-24

Incorporating as optional modular units:

124-414 DXn Zone Expansion PCB
124-429 Loop Splitter PCB
124-430 DXc System I/O PCB (note: cannot be fitted with 124-414)
124-300 RS232 I/F

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Output to fire protection equipment - Output type A
7.10.2 Output to fire protection equipment - Output type B
7.10.3 Output to fire protection equipment - Output type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of each address points
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The regions are related to different market areas.

DXc1-M

Single loop control and indicating equipment

429c/16

714-001-213 PANEL DXc1-M SINGLE LOOP REGION 3 (MIAS protocol)714-001-214
PANEL DXc1-M SINGLE LOOP REGION 4 (MIAS protocol)

Incorporating as modular units:

124-410-001 Base PCB 1 Loop
124-411 Display PCB
010-115 PSU RS-50-24

Incorporating as optional modular units:

124-414 DXn Zone Expansion PCB
124-429 Loop Splitter PCB
124-430 DXc System I/O PCB (note: cannot be fitted with 124-414)
124-300 RS232 I/F

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disablement of each address points
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.
3. The regions are related to different market areas.

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Multron Systems Pte Ltd

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Certificate No: 1330h-(cl-3) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

MX704

1 to 4 loop Intelligent Addressable Control and Indicating Equipment

Incorporating the following modules:

7010200004	Mother Board
7020100022	Main Board
7010700017	Loop Board
7010400011	Power Management Board
7010600019	Communication Board
7010400012	Power Wiring Board
PDF-150-27.5	Power Supply Unit
7021300007	Key Board
7020800009	Led Board
7010300010	Regional Display Board
814400002	Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)
7.10.1 Output to fire protection equipment - Type A
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.13 Alarm counter
9.5 Disabling of each address point
10 Test condition

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

**LPCB Ref.
No.
1330h/01**

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Certificate No: 154g to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

ID3000

Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment.

020-538	Basic Equipment Kit ID3000, Group 0
020-538-001	ID3000 Basic Equipment Kit, Group 1
020-538-003	ID3000 Basic Equipment Kit, Group 3
020-538-004	ID3000 Basic Equipment Kit, Group 4
020-538-005	ID3000 Basic Equipment Kit, Group 5

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey

**LPCB Ref.
No.
154g/01**

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Certificated Products

LPCB Ref.
No.

020-473-009	Backbox Kit Extended, Black / Grey
020-474-009	Backbox Kit Extended Deep, Black / Grey
020-475-009	Backbox Kit Double Extended, Black / Grey
020-476-009	Backbox Kit Double Extended Deep, Black / Grey
020-480-009	Cover Kit Main Moulded, Black / Grey
020-481-009	Cover Kit Extended Moulded, Black / Grey
020-508-009	Backbox Extension Standard Assembly Black / Grey
020-509-009	Backbox Extension Deep Assembly Black / Grey
020-513-009	High Security Cover Kit Main, Black / Grey
020-514-009	High Security Cover Kit Extension
020-576	Main Cover, Stainless Steel
020-577	Extension Cover Stainless Steel
020-621-256	Zone Extension Cover, Stainless / Steel
020-621-009	256 Zone Extension Cover, Black / Grey
020-541-009	PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588	Notifier Dual Loop Interface Board, (LIB)
020-549	Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579	PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	ID ² net Fibre Optic Interface Kit
020-647	ID ² net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

- Group 0: English and Icelandic, with English manuals
- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finish
- Group 4: English and Polish
- Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3002

Fixed build 2 loop analogue addressable control and indicating equipment.

154g/01

002-473	ID3002, 2 Loop, PSU3A, Group 0, Red
002-474	ID3002, 2 Loop, PSU3A, Group 0
002-474-001	ID3002, 2 Loop, PSU3A, Group 1
002-474-003	ID3002, 2 Loop, PSU3A, Group 3
002-474-004	ID3002, 2 Loop, PSU3A, Group 4
002-474-005	ID3002, 2 Loop, PSU3A, Group 5

Incorporating the following as modular units:

Enclosures:

020-472-009	Backbox Kit Standard, Black / Grey
020-473-009	Backbox Kit Extended, Black / Grey
020-474-009	Backbox Kit Extended Deep, Black / Grey
020-475-009	Backbox Kit Double Extended, Black / Grey
020-476-009	Backbox Kit Double Extended Deep, Black / Grey
020-480-009	Cover Kit Main Moulded, Black / Grey
020-481-009	Cover Kit Extended Moulded, Black / Grey
020-508-009	Backbox Extension Standard Assembly Black / Grey
020-509-009	Backbox Extension Deep Assembly Black / Grey
020-513-009	High Security Cover Kit Main, Black / Grey

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

020-514-009	High Security Cover Kit Extension
020-576	Main Cover, Stainless Steel
020-577	Extension Cover Stainless Steel
020-621-256	Zone Extension Cover, Stainless / Steel
020-621-009	256 Zone Extension Cover, Black / Grey
020-541-009	PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer
020-644-009	Printer Assembly
020-588	Notifier Dual Loop Interface Board, (LIB)
020-549	Notifier Dual Enhanced Loop Interface Board, (ELIB)
020-478	RS232 Interface
020-479	RS485 Interface
020-648	PSU3A
020-579	PSU7A, (Requires Dual Transmission Path / Booster, PSU Interface)
020-548	PSU7A Status Indication
020-543	Dual Transmission Path / Booster, PSU Interface
020-773	Routing Termination Unit (DEOL)
020-877	Extinguishing Interface Module M221-SI
020-643	ID ² net Fibre Optic Interface Kit
020-647	ID ² net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

- Group 0: English and Icelandic, with English manuals
- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finish
- Group 4: English and Polish
- Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3004

Fixed build 4 loop analogue addressable control and indicating equipment.

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020-727	ID3004, 4 Loop, PSU7A, Group 0, LIB
020-728	ID3004, 4 Loop, PSU7A, Group 0, ELIB
020-729	ID3004, 4 Loop, PSU7A, Group 0, LIB, printer
020-730	ID3004, 4 Loop, PSU7A, Group 0, LIB, 64 zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009	Backbox Kit Standard, Black / Grey
020-473-009	Backbox Kit Extended, Black / Grey
020-474-009	Backbox Kit Extended Deep, Black / Grey
020-475-009	Backbox Kit Double Extended, Black / Grey
020-476-009	Backbox Kit Double Extended Deep, Black / Grey
020-480-009	Cover Kit Main Moulded, Black / Grey
020-481-009	Cover Kit Extended Moulded, Black / Grey
020-508-009	Backbox Extension Standard Assembly Black / Grey
020-509-009	Backbox Extension Deep Assembly Black / Grey
020-513-009	High Security Cover Kit Main, Black / Grey
020-514-009	High Security Cover Kit Extension
020-576	Main Cover, Stainless Steel
020-577	Extension Cover Stainless Steel
020-621-256	Zone Extension Cover, Stainless / Steel
020-621-009	256 Zone Extension Cover, Black / Grey
020-541-009	PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001	Zone Extension Chassis Kit 1-64 Zone C/W Display Module
020-559-002	Zone Extension Chassis Kit 65-128 Zone C/W Display Module
020-612	Double Extended Chassis Kit 256 Zone
020-708-009	Extension Chassis with Printer

Certificated Products

**LPCB Ref.
No.**

020-644-009 Printer Assembly
 020-588 Notifier Dual Loop Interface Board, (LIB)
 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)
 020-478 RS232 Interface
 020-479 RS485 Interface
 020-648 PSU3A
 020-579 PSU7A, (Requires Dual Transmission Path / Booster,
 PSU Interface)
 020-548 PSU7A Status Indication
 020-543 Dual Transmission Path / Booster, PSU Interface
 020-773 Routing Termination Unit (DEOL)
 020-877 Extinguishing Interface Module M221-SI
 020-643 ID²net Fibre Optic Interface Kit
 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

Group 0: English and Icelandic, with English manuals
 Group 1: English, Spanish, Portuguese, Icelandic and Italian
 Group 3: English, Swedish, Danish, Norwegian and Finish
 Group 4: English and Polish
 Group 5: English and Cyrillic

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.

ID3006

Fixed build 6 loop analogue addressable control and indicating equipment.

154g/01

020-731 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB
 020-732 ID3006, 6 Loop, PSU7A, Group 0, 2xELIB
 020-733 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, printer
 020-734 ID3006, 6 Loop, PSU7A, Group 0, 2xLIB, 64 zone LED

Incorporating the following as modular units:

Enclosures:

020-472-009 Backbox Kit Standard, Black / Grey
 020-473-009 Backbox Kit Extended, Black / Grey
 020-474-009 Backbox Kit Extended Deep, Black / Grey
 020-475-009 Backbox Kit Double Extended, Black / Grey
 020-476-009 Backbox Kit Double Extended Deep, Black / Grey
 020-480-009 Cover Kit Main Moulded, Black / Grey
 020-481-009 Cover Kit Extended Moulded, Black / Grey
 020-508-009 Backbox Extension Standard Assembly Black / Grey
 020-509-009 Backbox Extension Deep Assembly Black / Grey
 020-513-009 High Security Cover Kit Main, Black / Grey
 020-514-009 High Security Cover Kit Extension
 020-576 Main Cover, Stainless Steel
 020-577 Extension Cover Stainless Steel
 020-621-256 Zone Extension Cover, Stainless / Steel
 020-621-009 256 Zone Extension Cover, Black / Grey
 020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

020-559-001 Zone Extension Chassis Kit 1-64 Zone
 C/W Display Module
 020-559-002 Zone Extension Chassis Kit 65-128 Zone
 C/W Display Module
 020-612 Double Extended Chassis Kit 256 Zone
 020-708-009 Extension Chassis with Printer
 020-644-009 Printer Assembly
 020-588 Notifier Dual Loop Interface Board, (LIB)
 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)
 020-478 RS232 Interface
 020-479 RS485 Interface
 020-648 PSU3A
 020-579 PSU7A, (Requires Dual Transmission Path / Booster,
 PSU Interface)
 020-548 PSU7A Status Indication
 020-543 Dual Transmission Path / Booster, PSU Interface
 020-773 Routing Termination Unit (DEOL)
 020-877 Extinguishing Interface Module M221-SI
 020-643 ID²net Fibre Optic Interface Kit

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

- Group 0: English and Icelandic, with English manuals
- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finish
- Group 4: English and Polish
- Group 5: English and Cyrillic

ID3008

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.
Fixed build 8 loop analogue addressable control and indicating equipment.

154g/01

- 020-735 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure
- 020-736 ID3008, 8 Loop, PSU7A, Group 0, 3xELIB, 78Ah Battery Enclosure
- 020-737 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery Enclosure, Printer
- 020-738 ID3008, 8 Loop, PSU7A, Group 0, 3xLIB, 78Ah Battery enclosure, printer, 64 Zone LED

Incorporating the following as modular units:

Enclosures:

- 020-472-009 Backbox Kit Standard, Black / Grey
- 020-473-009 Backbox Kit Extended, Black / Grey
- 020-474-009 Backbox Kit Extended Deep, Black / Grey
- 020-475-009 Backbox Kit Double Extended, Black / Grey
- 020-476-009 Backbox Kit Double Extended Deep, Black / Grey
- 020-480-009 Cover Kit Main Moulded, Black / Grey
- 020-481-009 Cover Kit Extended Moulded, Black / Grey
- 020-508-009 Backbox Extension Standard Assembly Black / Grey
- 020-509-009 Backbox Extension Deep Assembly Black / Grey
- 020-513-009 High Security Cover Kit Main, Black / Grey
- 020-514-009 High Security Cover Kit Extension
- 020-576 Main Cover, Stainless Steel
- 020-577 Extension Cover Stainless Steel
- 020-621-256 Zone Extension Cover, Stainless / Steel
- 020-621-009 256 Zone Extension Cover, Black / Grey
- 020-541-009 PSU7A / 78Ah Battery Enclosure

Modules:

- 020-559-001 Zone Extension Chassis Kit 1-64 Zone
C/W Display Module
- 020-559-002 Zone Extension Chassis Kit 65-128 Zone
C/W Display Module
- 020-612 Double Extended Chassis Kit 256 Zone
- 020-708-009 Extension Chassis with Printer
- 020-644-009 Printer Assembly
- 020-588 Notifier Dual Loop Interface Board, (LIB)
- 020-549 Notifier Dual Enhanced Loop Interface Board, (ELIB)
- 020-478 RS232 Interface
- 020-479 RS485 Interface
- 020-648 PSU3A
- 020-579 PSU7A, (Requires Dual Transmission Path / Booster,
PSU Interface)
- 020-548 PSU7A Status Indication
- 020-543 Dual Transmission Path / Booster, PSU Interface
- 020-773 Routing Termination Unit (DEOL)
- 020-877 Extinguishing Interface Module M221-SI
- 020-643 ID²net Fibre Optic Interface Kit
- 020-647 ID²net Network Gateway Module, (NGM) for use in ID3000 Panel

Note 1: Products are available in language variants as follows:

- Group 0: English and Icelandic, with English manuals
- Group 1: English, Spanish, Portuguese, Icelandic and Italian
- Group 3: English, Swedish, Danish, Norwegian and Finish
- Group 4: English and Polish
- Group 5: English and Cyrillic

ID50

Note 2: Fixed build products incorporate a corresponding Basic Equipment Kit.
Single loop analogue addressable control and indicating equipment

154g/02

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

002-455 ID50 Panel Group 0
 002-455-001 ID50 Panel Group 1
 002-455-003 ID50 Panel Group 3
 002-455-004 ID50 Panel Group 4
 May also incorporate the following optional modular unit:
 002-553 RS485 Communication Kit

Certified with the following options with requirements:

7.8	Output to fire alarm devices	7.9.1	Output
to fire alarm routing equipment	7.9.2	Alarm confirmation input	
from fire alarm	routing equipment	7.10.1	
Outputs to fire protection equipment: Type A	7.10.3	Outputs to fire	
protection equipment: Type C	7.10.4	Fault monitoring of fire protection	
equipment	7.11	Delays to Outputs	7.12.2
Dependencies on more than one alarm signal: Type B		7.13	Alarm
counter	8.3	Fault signals from points	8.9
to fault warning routing equipment	9.5	Disablement of	Output
addressable points	10	Test condition	

Note: Products are available in various language groups as follows:
 Group 0: English, Icelandic, French, Italian, Portuguese and Spanish,
 (shipped with English manuals) Group 1: English, Icelandic,
 French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and
 Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English
 and Polish

ID60 Single loop analogue addressable control and indicating equipment 154g/03

002-456 ID60 Panel Group 0
 002-456-001 ID60 Panel Group 1
 002-456-003 ID60 Panel Group 3
 002-456-004 ID60 Panel Group 4
 May also incorporate the following optional modular unit:
 002-553 RS485 Communication Kit

Certified with the following options with requirements:

7.8	Output to fire alarm devices	7.9.1	Output
to fire alarm routing equipment	7.9.2	Alarm confirmation input	
from fire alarm	routing equipment	7.10.1	
Outputs to fire protection equipment: Type A	7.10.3	Outputs to fire	
protection equipment: Type C	7.10.4	Fault monitoring of fire protection	
equipment	7.11	Delays to Outputs	7.12.2
Dependencies on more than one alarm signal: Type B		7.13	Alarm
counter	8.3	Fault signals from points	8.9
to fault warning routing equipment	9.5	Disablement of	Output
addressable points	10	Test condition	

Note: Products are available in various language groups as follows:
 Group 0: English, Icelandic, French, Italian, Portuguese and Spanish,
 (shipped with English manuals) Group 1: English, Icelandic,
 French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and
 Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English
 and Polish

ID61 Single loop analogue addressable control and indicating equipment 154g/04

002-463 ID61 Panel Group 0
 002-463-001 ID61 Panel Group 1
 002-463-004 ID61 Panel Group 4
 002-485-001 ID61 Panel Group 1 (Red)
 Incorporating the following modular unit:
 020-648 PSU3A Kit
 May also incorporate the following optional modular units:
 020-479 RS485 Communication Kit
 020-644-009 Printer Kit

Certified with the following options with requirements:

7.8	Output to fire alarm devices	7.9.1	Output
to fire alarm routing equipment	7.9.2	Alarm confirmation input	
from fire alarm	routing equipment	7.10.1	
Outputs to fire protection equipment: Type A	7.10.3	Outputs to fire	
protection equipment: Type C	7.10.4	Fault monitoring of fire protection	
equipment	7.11	Delays to Outputs	7.12.2

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

Dependencies on more than one alarm signal: Type B 7.13 Alarm
counter 8.3 Fault signals from points 8.9 Output
to fault warning routing equipment 9.5 Disabling of
addressable points 10 Test condition

Note: Products are available in various language groups as follows:
Group 0: English, Icelandic, French, Italian, Portuguese and Spanish,
(shipped with English manuals) Group 1: English, Icelandic,
French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and
Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English
and Polish

ID62

Single loop analogue addressable control and indicating equipment

154g/05

002-461 ID62 Panel Group 0
002-461-001 ID62 Panel Group 1
002-461-004 ID62 Panel Group 4

Incorporating the following modular unit:

020-648 PSU3A Kit

May also incorporate the following optional modular units:

020-479 RS485 Communication Kit

020-644-009 Printer Kit

Certified with the following options with requirements:

7.8 Output to fire alarm devices 7.9.1 Output
to fire alarm routing equipment 7.9.2 Alarm confirmation input
from fire alarm routing equipment 7.10.1
Outputs to fire protection equipment: Type A 7.10.3 Outputs to fire
protection equipment: Type C 7.10.4 Fault monitoring of fire protection
equipment 7.11 Delays to Outputs 7.12.2
Dependencies on more than one alarm signal: Type B 7.13 Alarm
counter 8.3 Fault signals from points 8.9 Output
to fault warning routing equipment 9.5 Disabling of
addressable points 10 Test condition

Note: Products are available in various language groups as follows:
Group 0: English, Icelandic, French, Italian, Portuguese and Spanish,
(shipped with English manuals) Group 1: English, Icelandic,
French, Italian, Portuguese and Spanish Group 2: English, Dutch, German, French and
Italian Group 3: English, Swedish, Danish, Norwegian and Finnish Group 4: English
and Polish

NFS2-8 2 Zone

002-477-122 Language region 1, light grey
002-477-129 Language region 1, black & grey
002-477-222 Language region 2, light grey
002-477-229 Language region 2, black & grey
002-477-322 Language region 3, light grey, dual relay
002-477-329 Language region 3, black & grey, dual relay, English manual
002-490-129 Language region 1, black & grey, dual relay, English manual
002-490-229 Language region 2, black & grey, dual relay, English manual
002-490-222 Language region 2, light grey, English manual

154g/06

Incorporating the following units:

020-747 8-Way relay kit 020-772 4-way monitored sounder kit

Certified with the following options from EN 54 Part 2:

7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing
equipment 7.9.2 Alarm confirmation input from fire alarm
routing equipment 7.10.1 Output to automatic fire protection equipment:
Type A 7.10.3 Output to automatic fire protection equipment: Type C 7.10.4
Fault monitoring of fire protection equipment 7.11.1 Delays to outputs
7.11.2 Manual or automatic switching of delays to outputs 7.12.2
Dependency on more than one alarm signal: Type B 8.9 Output
to fault warning routing equipment 10 Test condition

NFS2-8 4 Zone

Note 1: fixed build products incorporate a corresponding Basic equipment Kit.
002-477-142 Language region 1, light grey
002-477-149 Language region 1, black & grey
002-477-242 Language region 2, light grey
002-477-249 Language region 2, black & grey
002-477-342 Language region 3, light grey, dual relay
002-477-349 Language region 3, black & grey, dual relay
002-490-149 Language region 1, black & grey, dual relay, English manual
002-490-249 Language region 2, black & grey, dual relay, English manual
002-490-242 Language region 2, light grey, English manual

154g/07

Incorporating the following units:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

	020-747 8-Way relay kit	020-772 4-way monitored sounder kit	
	Certified with the following options from EN 54 Part 2:		
	7.8 Output to fire alarm devices	7.9.1 Output to fire alarm routing	
	equipment	7.9.2 Alarm confirmation input from fire alarm	
		routing equipment	7.10.1 Output to automatic fire protection equipment:
Type A	7.10.3 Output to automatic fire protection equipment: Type C		7.10.4
	Fault monitoring of fire protection equipment	7.11.1 Delays to outputs	
	7.11.2 Manual or automatic switching of delays to outputs		7.12.2
	Dependency on more than one alarm signal: Type B	8.9 Output	
	to fault warning routing equipment	10 Test condition	
	Note 1: fixed build products incorporate a corresponding Basic equipment Kit.		
NFS2-8 8 Zone	002-477-182 Language region 1, light grey		154g/08
	002-477-189 Language region 1, black & grey		
	002-477-282 Language region 2, light grey		
	002-477-289 Language region 2, black & grey		
	002-477-382 Language region 3, light grey, dual relay		
	002-477-389 Language region 3, black & grey, dual relay		
	002-490-189 Language region 1, black & grey, dual relay, English manual		
	002-490-289 Language region 2, black & grey, dual relay, English manual		
	002-490-282 Language region 2, light grey, English manual		
	Incorporating the following units:		
	020-747 8-Way relay kit		
	020-772 4-way monitored sounder kit		
	Incorporating the following units:		
	020-747 8-Way relay kit	020-772 4-way monitored sounder kit	
	Certified with the following options from EN 54 Part 2:		
	7.8 Output to fire alarm devices	7.9.1 Output to fire alarm routing	
	equipment	7.9.2 Alarm confirmation input from fire alarm	
		routing equipment	7.10.1 Output to automatic fire protection equipment:
Type A	7.10.3 Output to automatic fire protection equipment: Type C		7.10.4
	Fault monitoring of fire protection equipment	7.11.1 Delays to outputs	
	7.11.2 Manual or automatic switching of delays to outputs		7.12.2
	Dependency on more than one alarm signal: Type B	8.9 Output	
	to fault warning routing equipment	10 Test condition	
	Note 1: fixed build products incorporate a corresponding Basic equipment Kit.		
ID2000	Basic Equipment Kit, (BEK): Modular analogue addressable control and indicating equipment.		154g/09
	020-628 Basic equipment kit ID2000 Group 0,		
	020-628-001 Basic equipment kit ID2000 Group 1, UK ES PT IT		
	020-628-002 Basic equipment kit ID2000 Group 2, UK NL FR		
	Incorporating the following as optional modular units:		
	Enclosures:		
	020-472-009 Backbox Kit Standard, Black / Grey	020-473-009	
	Backbox Kit Extended, Black / Grey	020-474-009 Backbox Kit	
	Extended Deep, Black / Grey	020-475-009 Backbox Kit Double	
	Extended, Black / Grey	020-476-009 Backbox Kit Double Extended Deep,	
	Black / Grey	020-480-009 Cover Kit Main Moulded, Black / Grey	020-
	481-009 Cover Kit Extended Moulded, Black / Grey	020-508-009	
	Backbox Extension Standard Assembly Black / Grey	020-509-009	
	Backbox Extension Deep Assembly Black / Grey	020-576 Main Cover,	
	Stainless Steel	020-577 Extension Cover Stainless Steel	020-
	541-009 PSU7A / 78Ah Battery Enclosure		
	Modules:		
	020-649-009 64 Zone Extension Chassis Kit	64 Zone C/W Display	
Module	020-708-009 Extension Chassis with Printer	020-644-009	
	Printer Assembly	020-588 Notifier Dual Loop Interface Board,	
(LIB)	020-478 RS232 Interface	020-479 RS485 Interface	
	020-648 PSU3A	020-579 PSU7A, (Requires Dual	
	Transmission Path / Booster, PSU Interface)	020-543 Dual	
	Transmission Path / Booster, PSU Interface	020-548 PSU7A Status	
	Indication		
	Certified with the following options with requirements from EN 54 Part 2:		
	7.8 Output to fire alarm devices	7.9.1 Output	
	to fire alarm routing equipment	7.9.2 Alarm confirmation input	
	from fire alarm routing equipment	7.11 Delays to outputs	7.12.3
	Dependency on more than one alarm signal type C	7.13	

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

	Alarm counter	8.3	Fault signals from points	
	9.5	Disablements of addressable points	10	
	Test condition			
	Note 2: Products are available in language variants as follows: Group 0: English, Spanish, Portuguese and Italian (shipped with English manuals) Group 1: English, Spanish, Portuguese and Italian Group 2: English, Dutch, and French			
ID2002	Fixed build 2 loop analogue addressable control and indicating equipment.			154g/09
	002-459	ID2002, 2 loop control and indicating equipment, Group 1		

Incorporating the following as optional modular units:

Enclosures:
020-472-009 Backbox Kit Standard, Black / Grey 020-473-009
Backbox Kit Extended, Black / Grey 020-474-009 Backbox Kit
Extended Deep, Black / Grey 020-475-009 Backbox Kit Double
Extended, Black / Grey 020-476-009 Backbox Kit Double Extended Deep,
Black / Grey 020-480-009 Cover Kit Main Moulded, Black / Grey 020-
481-009 Cover Kit Extended Moulded, Black / Grey 020-508-009
Backbox Extension Standard Assembly Black / Grey 020-509-009
Backbox Extension Deep Assembly Black / Grey 020-576 Main Cover,
Stainless Steel 020-577 Extension Cover Stainless Steel 020-
541-009 PSU7A / 78Ah Battery Enclosure

Modules:

Module 020-649-009 64 Zone Extension Chassis Kit 64 Zone C/W Display
020-708-009 Extension Chassis with Printer 020-644-009
Printer Assembly 020-588 Notifier Dual Loop Interface Board,
(LIB) 020-478 RS232 Interface 020-479 RS485 Interface
020-648 PSU3A 020-579 PSU7A, (Requires Dual
Transmission Path / Booster, PSU Interface) 020-543 Dual
Transmission Path / Booster, PSU Interface 020-548 PSU7A Status
Indication

Certified with the following options with requirements from EN 54 Part 2:

7.8 Output to fire alarm devices 7.9.1 Output
to fire alarm routing equipment 7.9.2 Alarm confirmation input
from fire alarm routing equipment 7.11 Delays to outputs 7.12.3
Dependency on more than one alarm signal type C 7.13
Alarm counter 8.3 Fault signals from points
9.5 Disablements of addressable points 10
Test condition

Note 2: Products are available in language variants as follows:

Group 0: English, Spanish, Portuguese and Italian
(shipped with English manuals) Group 1: English, Spanish, Portuguese and
Italian Group 2: English, Dutch, and French

Pearl	Two loop analogue addressable control and indicating equipment			154g/10
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Incorporating the following units:

772489-NE CPU board 124-408 3A PSU board
124-412 Network gateway module 124-421 Base
board incorporating two loops 124-422 Display board 124-423
VdS I/O Module 124-426 Communications module PRL-
Box Extended Back box

Incorporating the following optional regional language text inserts:

PRL-LED-EN (English) PRL-D (German) PRL-IB
(Iberia) PRL-BNL (Benelux) PRL-LCD-NRD
(Swedish) PRL-MEA (Middle East and Africa) PRL-IT
(Italian)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing
equipment 7.9.2 Alarm confirmation input from fire alarm routing
equipment 7.10.1 Output to fire protection equipment type A 7.10.3
Output to fire protection equipment type C 7.10.4 Fault monitoring
of fire protection equipment 7.11 Delays to outputs 7.12.2 Dependency on
more than one alarm signal type B 7.12.3 Dependency on more than one alarm
signal type C 7.13 Alarm counter 8.3 Fault signals from points
8.9 Output to fault warning routing equipment 9.5
Disablements of addressable points 10 Test condition

Notes:

Certificated Products

LPCB Ref. No.

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.

Notes:

1. 1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*
2. *Scope of approval does not include the operation of the network functionality.*

Pearl

Single loop analogue addressable control and indicating equipment

154g/11

Incorporating the following units:

772489-NE	CPU board	124-408	3A	PSU board
124-412	Network gateway module	124-421-001	Single	
loop base board incorporating one loop	124-422	Display board	124-	
423	VdS I/O Module	124-426	Communications module	

PRL-Box Extended Back box

Incorporating the following optional regional language text inserts:

PRL-LED-EN-1	(English)
PRL-D-1	(German)
PRL-IB-1	(Iberia)
PRL-BNL-1	(Benelux)
PRL-LCD-NRD-1	(Swedish)
PRL-MEA-1	(Middle East and Africa)
PRL-IT-1	(Italian)

Certified with the following options with requirements from EN 54-2:

7.8	Output to fire alarm devices	7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment	7.10.1	Output to fire protection equipment type A
	Output to fire protection equipment type C	7.10.3	Output to fire protection equipment type B
	7.11	Delays to outputs	7.10.4
	7.12.2	Dependency on more than one alarm signal type B	7.12.3
	7.12.3	Dependency on more than one alarm signal type C	7.13
	7.13	Alarm counter	8.3
	8.3	Fault signals from points	8.9
	8.9	Output to fault warning routing equipment	9.5
	9.5	Disabling of addressable points	10
	10	Test condition	

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2. Scope of approval does not include the operation of the network functionality.

002-467

ID² net Network Gateway Unit, (NGU) Notifier Protocol

154g/NO1

Incorporating the following as modular units:

020-643	ID ² net Fibre Optic Interface Kit
020-647	ID ² net Network Gateway Module, (NGM) for use in ID3000 Panels
020-648	PSU3A

Certified with the following options with requirements:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm confirmation input from fire alarm routing equipment
7.10.1	Output to fire protection equipment type A
7.10.3	Output to fire protection equipment type C
7.10.4	Fault monitoring of fire protection equipment
7.11	Delays to outputs
7.12.2	Dependency on more than one alarm signal type B
7.12.3	Dependency on more than one alarm signal type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disabling of addressable points
10	Test condition

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

nuhas oman

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E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550g-(cl-1) to EN54-2:1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

		LPCB Ref. No.
DXc1-S	Single loop control and indicating equipment 714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (UK & Iceland) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (Dutch, French, Italian, Slovenian) 714-001-115 PANEL DXc1-S SINGLE LOOP REGION 5 (ASEAN, & India) 714-001-117 PANEL DXc1-S SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania) 714-001-118 PANEL DXc1-S SINGLE LOOP REGION 8 (Russia & Bulgaria) 714-001-119 PANEL DXc1-S SINGLE LOOP REGION 9 (Greek) Incorporating as modular units: 124-410-003 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24	550g/01
DXc1-M	Single loop control and indicating equipment 714-001-111 PANEL DXc1-S SINGLE LOOP REGION 1 (UK & Iceland) 714-001-112 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME) 714-001-113 PANEL DXc1-S SINGLE LOOP REGION 3 (Dutch, French, Italian, Slovenian) 714-001-115 PANEL DXc1-M SINGLE LOOP REGION 5 (ASEAN, & India) 714-001-117 PANEL DXc1-M SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania) 714-001-118 PANEL DXc1-M SINGLE LOOP REGION 8 (Russia & Bulgaria) 714-001-119 PANEL DXc1-M SINGLE LOOP REGION 9 (Greek) Incorporating as modular units: 124-410-003 Base PCB 1 Loop 124-411 Display PCB 010-115 PSU RS-50-24	550g/02
DXc2-M	Two loop control and indicating equipment 714-001-221 PANEL DXc2-M TWO LOOP REGION 1 (UK & Iceland) 714-001-222 PANEL DXc2-M TWO LOOP REGION 2 (Iberia, India & ME) 714-001-223 PANEL DXc2-M TWO LOOP REGION 3 (Dutch, French, Italian, Slovenian) 714-001-225 PANEL DXc2-M TWO LOOP REGION 5 (ASEAN, & India) 714-001-227 PANEL DXc2-M TWO LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania) 714-001-228 PANEL DXc2-M TWO LOOP REGION 8 (Russia & Bulgaria) 714-001-229 PANEL DXc2-M TWO LOOP REGION 9 (Greek) Incorporating as modular units: 124-410-002 Base PCB 2 Loop 124-411 Display PCB 010-116 PSU RS-100-24	550g/03
DXc4-M	Four loop control and indicating equipment 714-001-241 PANEL DXc4-M FOUR LOOP REGION 1 (UK & Iceland) 714-001-242 PANEL DXc4-M FOUR LOOP REGION 2 (Iberia, India & ME) 714-001-243 PANEL DXc4-M FOUR LOOP REGION 3 (Dutch, French, Italian, Slovenian) 714-001-245 PANEL DXc4-M FOUR LOOP REGION 5 (ASEAN, & India) 714-001-247 PANEL DXc4-M FOUR LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania) 714-001-248 PANEL DXc4-M FOUR LOOP REGION 8 (Russia & Bulgaria) 714-001-249 PANEL DXc4-M FOUR LOOP REGION 9 (Greek) Incorporating as modular units:	550g/04

Certificated Products

**LPCB Ref.
No.**

124-410-002 Base PCB 2 Loop
124-411 Display PCB
124-417 2 Loop PCB
010-116 PSU RS-100-24

Incorporating as optional modular units:
795-099 KIT DXc NETWORK CARD
795-102 KIT DXc 40 ZONE LED CARD
795-103 KIT DXc 80 ZONE LED CARD WITH COVER
795-111 KIT DXc 2 LOOP EXPANSION CARD (Applicable to the two loop CIE only)
795-117 KIT DXc PERFORMANCE CARD
795-118 KIT DXc KEYSWITCH
795-122 KIT DXc RS232
795-123 KIT DXc RS485
795-124 KIT DXc 80 ZONE LED CARD

Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal-Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disabling of each addressable point
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

DXc0-S

Pre-configured Single Loop Control and Indicating Equipment

550g/05

714-001-102 PANEL DXc1-S SINGLE LOOP REGION 2 (Iberia, India & ME)
714-001-105 PANEL DXc1-S SINGLE LOOP REGION 5 (ASEAN, & India)
714-001-107 PANEL DXc1-S SINGLE LOOP REGION 7 (Turkey, Poland, Romania, Czech Republic, Slovakia, Croatia, Austria, Hungary, Slovenia, Latvia, Estonia, Lithuania)
714-001-108 PANEL DXc1-S SINGLE LOOP REGION 8 (Russia & Bulgaria)
714-001-109 PANEL DXc1-S SINGLE LOOP REGION 9 (Greek)

Incorporating as modular units:
124-410-003 Base PCB 1 Loop
124-411 Display PCB
010-115 PSU RS-50-24

Certified with the following options with requirements from EN 54-2:
7.8 Output to fire alarm devices
7.11 Delays to outputs
7.12.3 Dependencies on more than one alarm signal-Type C
7.13 Alarm counter
8.3 Fault signals from points
9.5 Disabling of each addressable point
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 1010a to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2 006

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

BSR-2104

Two loop analogue addressable control and indicating equipment.

**LPCB Ref.
No.**
1010a/01

Incorporating the following units:

1702091	Main board
0905073	Main processor board
0506073	Input / Output Unit
1603073	LED PCB board
2307103	Loop 1 incorporating power control board
DPP100-24	Lambda PSU block

Certified with the following options with requirements from EN 54 part 2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.10.1	Output to fire protection equipment (Type A)
7.10.4	Fault monitoring of fire protection equipment
7.11	Delays to outputs
7.13	Alarm counter
8.3	Fault signal from points
8.9	Output to fault warning routing equipment
9.5	Disablement of each address point
10	Test condition

BSR-2114

Four loop analogue addressable control and indicating equipment.

1010a/02

Incorporating the following units:

1702091	Main board
0905073	Main processor board
0506073	Input / Output Unit
1603073	LED PCB board
2307103	Loop 1 incorporating power control board
2607103	Loop 2 board
DPP100-24	Lambda PSU block

Certified with the following options with requirements from EN 54 part 2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.10.1	Output to fire protection equipment (Type A)
7.10.4	Fault monitoring of fire protection equipment
7.11	Delays to outputs
7.13	Alarm counter
8.3	Fault signal from points
8.9	Output to fault warning routing equipment
9.5	Disablement of each address point
10	Test condition

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E-mail: corporate@orientcorp.net

Certificate No: 176c-(cl-1) to EN 12094-1: 2003, EN54-2: 1997 + A1: 2006 + A2: 2007 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

EP203/ORIENT

Conventional three zone class A extinguisher control panel

**LPCB Ref.
No.**
176c/01

Incorporating the following units:

SPF0000203	Main extinguisher control
SPF0000212	External relay interface
SPF0003613	Power supply unit
SPF0000214	EP214 terminator

Incorporating as modular units:

Certificated Products

**LPCB Ref.
No.**

EP210S Remote Status Unit Surface Mount optional (See Note 1)
EP211 Economy Status Unit optional (See Note 1)

Certified with the following options with requirements from EN 12094-1:2003

4.17 Delay of extinguishing signal
4.18 Signal representing the flow of extinguishing agent
4.19 Monitoring of the status of components
4.20 Emergency hold device
4.21 Control of flooding time
4.23 Manual only mode
4.26 Triggering of equipment outside the system
4.27 Emergency abort device
4.30 Activation of alarm devices with different signals

Certified with the following options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.11 Delays to the auctioning of outputs fire alarm devices and fire routing equipment
7.13 Alarm counter
10 Test condition

Note:

1. *Optional Remote Status Unit part No. EP210S & Economy Status Unit part No. EP211 are not certified as meeting the requirements of the standards specified.*
2. *Meets the requirements of EN12094-3:2003, Class A - i.e. operational temperature range of -5°C to +40°C.*

Paradox Hellas S.A

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Tel: +30 210 285 55 000

E-mail: rnd@paradox.gr • Website: www.paradox.gr

Certificate No: 1369a-(cl-1) to EN54-2:1997 + A1: 2006 & EN54-4:1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

SMARTX

SMARTX 116 HO Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol)
SMARTX 132 HO Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol)
SMARTX 116 AP Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol)
SMARTX 132 AP Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol)

Incorporating the following modules:

PH.SM.1LP.MN Addressable Main Board
PH.KP.132.GR 32 Zones Keypad / Display Board (Applicable to SMARTX 132)
PH.KP.116.GR 16 Zones Keypad / Display Board (Applicable to SMARTX 116)
PH.PS.006.V1 FPS-6 Power Supply

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire protection equipment Output type A
7.10.2 Outputs to fire protection equipment Output type B
7.10.3 Outputs to fire protection equipment Output type C
7.10.4 Fault monitoring of fire protection equipment
7.12.2 Dependencies on more than one alarm signal Type B dependency

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

- 8.3 Fault signals from points
- 9.5 Disabling of addressable point

LPCB Ref.
No.

Note:

This product approval does not constitute compliance with the fire detection and alarms systems requirements of EN54-13.

Photain Controls

8 New Market Court, Chippenham Drive, Kingston, Milton Keynes MK10 0AQ, United Kingdom

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E-mail: Joanna.wyrwich@fs.utc.com

Certificate No: 1199c to EN 54-2: 1998 CIE and EN 54-4: 1998 Power Supply

N.B This certificate is to a withdrawn standard. Control and indicating equipment conforming to this standard is not suitable for use within the jurisdiction of the European Union (EU). This certificate, to the withdrawn standard, is maintained because control and indicating equipment meeting the withdrawn standard is still requested by some regulators outside of the EU.

Certificated Products

ZP3

1, 2 and 4 loop analogue addressable control and indicating equipment

LPCB Ref.
No.

1199c/01

Incorporating as modular units:

ZP3-MB2-4L	4 Loop Main board
ZP3-MB2-2L	2 Loop Main board
ZP3-MB2-1L	1 Loop Main board
ZP3-CPU1	CPU board
ZP3-DB1	Display board
ZP3-ZB50	50 Zone LED board
ZP3-CB1	Commissioning key switch board
ZP3-PR1	Printer Kit
ZP3AB-SCB-D	Control bus driver
ZP3AB-RL8	Programmable relay output board, 8 way
ZP3-AB-MA8	Programmable monitored output board, 8 way
ZP3AB-OP24	Programmable transistor output board, 24 way
ZP3AB-MIP8	Programmable input board, 8 way
ZP3-XI	230Vac Power supply unit

Approved with the following options from BS EN54 Part 2:

7.8	Output to fire alarm devices
7.9	Output to fire alarm routing equipment
7.10	Output to fire protection equipment
7.11	Delays to outputs
7.12	Co-incidence detection
7.13	Alarm counter
8.3	Fault signals from points
8.4	Total loss of power
8.9	Output to fault routing equipment
9.5	Disabling of addressable points
10	Test condition
11	Standardised input/output interface

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia

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Certificate No: 1426g-(cl-3) to EN54-2: 1997 + A1: 2006 & EN52-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.
1426g/01

SFS 2640E

Single Loop Analogue Addressable Fire Alarm Control Panel

Incorporating the following modules:

SEC3002_IO	IO Board
SEC3002_B	Monitoring Board (B Board)
ZB-9100-A	Main CPU Board (A Board)
PSE10_KZ	Power Supply
SEC3002_QK	Zone Indication Board
SEC3002_KEY	Key Board
SEC3002_FL1	Loop SPU Board

Incorporating the following optional modules:

SEC3002_COM Communication Board

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices
7.10.1 Output type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable point
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.
2. Scope of approval does not include the operation of the network functionality.

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Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref. No.
176b/08

CFP704-4/SCAN/S

Four zone conventional control and indicating equipment

Incorporating the units:

RPF0702005 Power supply PCB
SPF0724853 4 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997

7.8 Output to fire alarm devices(s)
7.11 Delays to outputs
10 Test condition

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

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E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 883b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref.
No.
883b/01

FX 8 Loop Analogue Addressable CIE

Basic unit incorporates the following modules:

FX-MC2 Master controller
FX-UI2 User interface
FX-PSB 4.5 A Power Supply
or
FX-PS2 4.8 A Power Supply

Optional Modules -The following modules are optional additions to the basic unit:

FX-ALCB Two loop addressable controller Apollo protocol card
FX-ALCA One loop addressable controller Apollo protocol card
FX-LC Two loop addressable controller System Sensor protocol card
FX-SLC Two loop addressable controller System Sensor advanced protocol card
FX-CLC Sixteen loop conventional Controller
FX-IOC I/O controller board
FX-OCA 16 clean output module
FX-LB80 80 Zone LED indication card
FX2-LB32 32 Panel LED indication card
FX-BAT Separate battery box (4x17Ah, 12V)
FXM-BAT Separate battery box (4x12Ah, 12V)

Certified with the following options with requirements from EN 54-2:

7.8 Outputs to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.10.3 Output to Fire Protection Equipment (Output Type C)
7.11 Delays to outputs
7.12.2 Dependencies on more than one alarm signal (Type B)
7.13 Alarm counter
8.3 Fault signals from points
8.4 Total loss of the power supply
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition

Notes:

- 1) Scope of approval does not include the operation of the network functionality.
- 2) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FXL 8 Loop Analogue addressable CIE

883b/02

Basic unit incorporates the following modules:

FX-MC2 Master controller
FX-UI2 User interface
FX-PSB 4.5 A Power Supply
or
FX-PS2 4.8 A Power Supply

Optional Modules -The following modules are optional additions to the basic unit:

FX-ALCB Two loop addressable controller Apollo protocol card
FX-ALCA One loop addressable controller Apollo protocol card
FX-LC Two loop addressable controller System Sensor protocol card
FX-SLC Two loop addressable controller System Sensor advanced protocol card

Certificated Products

**LPCB Ref.
No.**

FX-CLC	Sixteen loop conventional Controller
FX-IOC	I/O controller board
FX-OCA	16 clean output module
FX-LB80	80 Zone LED indication card
FX2-LB32	32 Panel LED indication card
FX-BAT	Separate battery box (4x17Ah, 12V)
FXM-BAT	Separate battery box (4x12Ah, 12V)

Certified with the following options with requirements from EN 54-2:

7.8	Outputs to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.10.3	Output to Fire Protection Equipment (Output Type C)
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal (Type B)
7.13	Alarm counter
8.3	Fault signals from points
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

1) Scope of approval does not include the operation of the network functionality.

2) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FXM

4 Loop Analogue addressable CIE

883b/03

Basic unit incorporates the following modules:

FX-MC2	Master Controller
FX-UI2	User Interface
FX-PSA	2.2 A Power Supply
or	
FX-PS2	4.8 A Power Supply

Optional Modules -The following modules are optional additions to the basic unit:

FX-ALCB	Two loop addressable controller - Apollo protocol card
FX-ALCA	One loop addressable controller - Apollo protocol card
FX-LC	FX-LC Two loop addressable controller - System Sensor protocol card
FX-	FX-SLC Two loop addressable controller - System Sensor advanced protocol card
FX-CLC	Sixteen loop conventional Controller
FX-IOC	I/O controller board
FX-OCA	16 clean output module
FX-LB80	80 Zone LED indication card
FX2-LB32	32 Panel LED indication card
FX-BAT	Separate battery box (4x17Ah, 12V)
FXM-BAT	Separate battery box (4x12Ah, 12V)

Certified with the following options with requirements from EN 54-2:

7.8	Outputs to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.10.3	Output to Fire Protection Equipment (Output Type C)
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal (Type B)
7.13	Alarm counter
8.3	Fault signals from points
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

FXS	Notes:	
	1) Scope of approval does not include the operation of the network functionality.	
	2) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
	Analogue addressable Repeater Panel	883b/R01
	Incorporating the following modules:	
	FX-MC2 Master Controller	
	FX-UI2 User Interface	
	Optional Modules -The following modules are optional additions to the basic unit:	
	FX-IOC I/O Controller	

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Website: www.schneider-electric.no

Certificate No: 176b to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

**LPCB Ref.
No.**
176b/08

EPC4	Four zone conventional control and indicating equipment	
	Incorporating the units:	
	RPF0702005 Power supply PCB	
	SPF0724853 4 Zone main control board	
	Certified with the following options with requirements from EN 54-2: 1997	
	7.8 Output to fire alarm devices(s)	
	7.11 Delays to outputs	
	10 Test condition	

Shenzhen Fanhai Sanjiang Electronics CO., Ltd

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Tel: +86 755 26521071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1159h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**
1159h/01

SEC3002	Addressable Fire Alarm Control Panel	
	Incorporating the following modules:	
	SEC3002_IO IO Board	
	SEC3002_B Monitoring Board (B Board)	
	ZB-9100-A Main CPU Board (A Board)	
	PSE10_KZ Power Supply	
	SEC3002_QK Zone Indication Board	
	SEC3002_KEY Key Board	
	SEC3002_FL1 Loop SPU Board	

Incorporating the following optional modules:
SEC3002_COM Communication Board

Certified with the following options with requirements from EN54-2:

Certificated Products

LPCB Ref.
No.

7.8 Output to fire alarm devices
7.10.1 Output type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disabling of addressable point
10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
2. Scope of approval does not include the operation of the network functionality.

Shield Fire, Safety & Security Ltd

Genesis, Unit 3, Endeavour Drive, Basildon SS14 3WF, United Kingdom
Tel: 01708 377 731 • Fax: 01708 347 637
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Certificate No: 1369a-(cl-2) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.
1369a/01

Mikro Mikro 216 Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol)
Mikro 232 Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Hochiki's ESP Protocol)
Mikro 16 Single Loop 16 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol)
Mikro 32 Single Loop 32 Zones Analogue Addressable Control and Indicating Equipment (Apollo's XP95/Discovery Protocol)

Incorporating the following modules:

MK.SA.1LP.EN Addressable Main Board
MK.SA.32D.EN 32 Zones Keypad / Display Board (Applicable to Mikro 32 Zones)
MK.SA.32D.EN 16 Zones Keypad / Display Board (Applicable to Mikro 16 Zones)
MK.SA.PSU.EN Power Supply

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Outputs to fire protection equipment Output type A
- 7.10.2 Outputs to fire protection equipment Output type B
- 7.10.3 Outputs to fire protection equipment Output type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.12.2 Dependencies on more than one alarm signal Type B dependency
- 8.3 Fault signals from points
- 9.5 Disabling of addressable point

Note:

This product approval does not constitute compliance with the fire detection and alarms systems requirements of EN54-13.

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

SHIELD FIRE, SAFETY AND SECURITY LTD

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

Tel: +44 207 712 1610 • Fax: +44 207 712 1578

E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 360b-(cl-4) to EN54-2: 1997 + A1: 2002 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 548p-(cl-2) to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 810a-(cl-3) to EN 54-2: 1997 + A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

Trident

2 to 8 Loop Analogue Addressable Control and Indicating Equipment
2 to 16 Loop Analogue Addressable Control and Indicating Equipment

Incorporating the following units:

TEN-9021 LCD Main Processor Board
TEN-9022 Main Back Board
TEN-9023 Trident Network, Ethernet & IFAM Interface Module
TEN-9058 Dual loop Module
TEN-9069 System Board A module
TEN-9070 System Board B Module
TEN-9071 Zone LED Board
TEN-9087 Trident Vision Unit
TEN-9068 Trident Thermal Printer Assembly
TEN-9606 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

TEN-9810 10.25 Amp Power Supply Unit
TEN-9072 16 Channel I/O card
TEN-9091 8w Relay card
TEN-9092 8w conventional zone card
TEN-9088 Media gateway card
TEN-9093 4w sounder card
TEN-9086 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.3 Output to type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition

Notes:

1. Scope of certification does not include the operation of the network functionality.
2. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
3. The Taktis CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

P-A2M

Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment

Incorporating the following units:

MB-220/ F7.820.826 Main board
SB-220/ F7.820.827 Switch board
TB-220/ F7.820.828 Loop interface board
PS-220/ F7.820.829b Power supply unit
ZP-220/ F7.820.312d Zone indication and intervention board
LC-A2M/ F7.820.1125 Loop board

LPCB Ref.
No.

360b/01

548p/01

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>Incorporating as optional modular units: DB-A300/ F7.820.913a RS-232 board for configuration P-A300P Printer module kit</p> <p>Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disabling of addressable points</p>	548p/02
<p>P-A8M Intelligent 8 loop, 140 zone analogue addressable control and indicating equipment</p> <p><i>Incorporating the following units:</i> SB-800 Indication board LC-A8M Loop board PB-800 Power board ZP-800 ZCP board KB-800 Keypad board MB-800 Main board MO-800 Mother board PS-800 Switch Mode Power Supply SP-320-27</p> <p><i>Incorporating as optional modular units:</i> DB-A8M USB communication board DB-A8MModbus RS232 ModBus Communication Card RB-A8M Repeater Card NB-A8MA Class A RS485 Network Card NB-CANA8M Class B CAN Network Card NB-CANA8MA Class A CAN Network Card IC-A8MP Printer Interface Card</p> <p><i>Certified with the following options with requirements from EN54 Part 2:</i> 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.9.2 Alarm confirmation input from fire routing equipment 7.10. Output type A 7.10.2 Output type B 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.13 Alarm counter 8.3 Fault signals from points 9.5 Disabling of each address point 10 Test condition</p> <p><i>Notes:</i> 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</p>	548p/03
<p>P-C202A 2 Zone Conventional Control and Indicating Equipment</p> <p>Incorporating the following modules: FC-102A/ F7.843.399 Membrane CB-102A/ F2.908.1719 Control board with integrated PSE DB-102A/ F2.908.1722 Display board</p> <p>Optional modules: 10104648 Traditional Chinese text variant CF-102A/ F7.843.421 Membrane</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition</p>	548p/04
<p>P-C204A 4 Zone Conventional Control and Indicating Equipment</p> <p>Incorporating the following modules: FC-104A/ F7.843.400 Membrane CB-104A/ F2.908.1718 Control board with integrated PSE DB-104A/ F2.908.1721 Display board</p>	548p/04

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
P-C208A	<p>Certified with the following options with requirements from EN 54 Part 2:</p> <ul style="list-style-type: none">7.8 Output to fire alarm devices7.9.1 Output to fire routing equipment7.11 Delays to outputs10 Test condition <p>8 Zone Conventional Control and Indicating Equipment</p> <p>Incorporating the following modules:</p> <ul style="list-style-type: none">FC-108A/ F7.843.401 MembraneCB-108A/ F2.908.1675 Control board with integrated PSEDB-108A/ F2.908.1720 Display board	548p/05
P-C216A	<p>Certified with the following options with requirements from EN 54 Part 2:</p> <ul style="list-style-type: none">7.8 Output to fire alarm devices7.9.1 Output to fire routing equipment7.11 Delays to outputs10 Test condition <p>16 Zone Conventional Control and Indicating Equipment</p> <p>Incorporating the following modules:</p> <ul style="list-style-type: none">FC-116A/ F7.843.402 MembraneCB-116A/ F2.908.1724 Control board with integrated PSEDB-116A/ F2.908.1676 Display boardXB-116A/ F7.820.1677 Expansion board	548p/06
P-A300N-2	<p>Certified with the following options with requirements from EN 54 Part 2:</p> <ul style="list-style-type: none">7.8 Output to fire alarm devices7.9.1 Output to fire routing equipment7.11 Delays to outputs10 Test condition <p>Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment</p> <p><i>Incorporating the following units:</i></p> <ul style="list-style-type: none"><i>MB-220N Main board</i><i>PS-220N Power management board</i><i>OX-220 Terminal board</i><i>ZP-220 Zone indication and intervention board</i><i>SB-220 Switch board</i><i>TB-220N Loop interface board</i><i>LC200 Loop board</i><i>PDF-150-27.5 Powered SMPS 100-240V power supply</i> <p><i>Incorporating as optional modular units:</i></p> <ul style="list-style-type: none"><i>DB-A300 RS-232 board for configuration</i><i>P-A300P Printer module kit</i><i>NB-CAN300A CAN network card loop type board</i><i>DB-A300ModBus RS232 Modbus interface card</i><i>NB-A300N Class A RS485 network card</i><i>NB-CAN300 Class B CAN network card</i> <p><i>Certified with the following options with requirements from EN54 part 2:</i></p> <ul style="list-style-type: none"><i>7.8 Output to Fire Alarm Devices</i><i>7.10.1 Output to automatic Fire Protection Equipment Type A</i><i>7.11 Delays to outputs</i><i>8.3 Fault signals from points</i><i>9.5 Disabling of addressable points</i> <p><i>Notes:</i></p> <ol style="list-style-type: none"><i>1. Scope of approval does not include the operation of the network functionality</i><i>2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</i>	548p/07
P-A2M/1	<p>Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment</p>	548p/08

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

P-A300N-1	<p>Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board Incorporating as optional modular units: DB-A300/ F7.820.913a RS-232 board for configuration P-A300P Printer module kit LC-A2M/ F7.820.1125 Loop board (for loop expansion)</p> <p>Certified with the following options with requirements from EN 54 part 2:7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points <i>Note: Can be extended to 2-loop panel by adding LC-A2M</i> Incorporating as optional modular units: <i>Incorporating as optional modular units:</i> DB-A300/ F7.820.913a RS-232 board for configuration P-A300P Printer module kit LC-A2M/ F7.820.1125 Loop board (for loop expansion)</p> <p>Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment</p> <p><i>Incorporating the following units:</i> MB-220N Main board PS-220N Power management board OX-220 Terminal board ZP-220 Zone indication and intervention board SB-220 Switch board TB-220N Loop interface board PDF-150-27.5 Powered SMPS 100-240V power supply</p> <p><i>Incorporating as optional modular units:</i> DB-A300 RS-232 board for configuration P-A300P Printer module kit NB-CAN300A CAN network card loop type board DB-A300ModBus RS232 Modbus interface card NB-A300N Class A RS485 network card NB-CAN300 Class B CAN network card</p> <p><i>Certified with the following options with requirements from EN54 part 2:</i> 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points</p> <p><i>Notes:</i> 1. Can be converted to 2 loop by adding LC200 Loop board 2. Scope of approval does not include the operation of the network functionality 3. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</p>	548p/11
NS-EN2 / NS-EN4	<p>2 Zone Conventional Control and Indicating Equipment</p> <p>Incorporating as modular units: TPC A01-S2 Eclipse two zone main PCB applicable on 2 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5-24 Power supply 1.5A rated</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A</p>	810a/09

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

	10	Test condition	
	4 Zone Conventional Control and Indicating Equipment		
	Incorporating as modular units: TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only TPC A02 Eclipse LED display PCB PSM1.5-24 Power supply 1.5A rated		
	Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.12.1 Dependency on more than one alarm signal type A 10 Test condition		
	Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.		
NS-EN8	8 Zone Conventional Control and Indicating Equipment		810a/10
	Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply		
	Incorporating as optional module: NS-EN-NCB Network Communication Board		
	Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition		
	Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.		
NS-EN12	12 Zone Conventional Control and Indicating Equipment		810a/11
	Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply		
	Incorporating as optional module: NS-EN-NCB Network Communication Board		
	Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition		
	Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.		
NS-EN16	16 Zone Conventional Control and Indicating Equipment		810a/12
	Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB		
	and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB		

Certificated Products

**LPCB Ref.
No.**

TPCA09 Sounder Card PCB
 TPCA08 Output Card PCB
 NS-EN-NCB Network Communication Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

NS-EN24

24 Zone Conventional Control and Indicating Equipment

810a/13

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
 TPCA11-24 24 Zone Main PCB
 TPCA12 Power supply PCB

and as optional modules

TPCR01 Relay PCB
 TPCR03 Isolate Switch PCB
 TPCA09 Sounder Card PCB
 TPCA08 Output Card PCB
 NS-EN-NCB Network Communication Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

NS-EN32

32 Zone Conventional Control and Indicating Equipment

810a/14

Incorporating as modular units:

TPCA10 32 Zone LED display PCB
 TPCA11-32 32 Zone Main PCB
 TPCA12 Power supply PCB

and as optional modules

TPCR01 Relay PCB
 TPCR03 Isolate Switch PCB
 TPCA09 Sounder Card PCB
 TPCA08 Output Card PCB
 NS-EN-NCB Network Communication Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.11 Delays to outputs
- 7.12.1 Dependency on more than one alarm signal type A
- 7.12.2 Dependency on more than one alarm signal type B
- 7.12.3 Dependency on more than one alarm signal type C
- 10 Test condition

Note:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland

Website: www.siemens.com

Certificate No: 126bn to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 531q-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.
126bn/01

FC2020

Control and Indicating Equipment

Incorporating as modular units:

FCM2027 PMI- & Mainboard
FCM2028-A2 Operating unit
FCM2037-A2 Operating unit (w/o accs.)
FP2015-A1 70W Power supply
FCI2002-A1 Periphery board (2-Loop)

and as optional modular units:

FCA2001-A1 RS232 Module (isolated)
FCA2002-A1 RS485 Module (isolated)
FCA2031-A1 Connection Module (MoNet)
FCI2001-D1 Fire brigade periphery module
FCI2003-A1 Loop expansion (FDnet)
FCM2036-A2 Operating add-on (4xLED indication)
FCM2038-A2 Operating add-on (2xLED indication)
FN2001-A1 Network module (SAFEDLINK) (See note 1)
FN2008-A1 Ethernet Switch (MM) (see note 1)
FN2012-A1 Ethernet Switch (modular)
FTO2001-A1 Event printer set
FTO2008-A1 LED module
SV24V-150W Power Supply
VN2002-A1 Ethernet module (MM)
VN2003-A1 Ethernet module (SM)
FHA2002-A1 Rear housing standard
FHA2003-A1 Rear Housing Comfort

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm Confirmation from fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment Type A
7.10.2 Output to automatic fire protection equipment Type B
7.10.3 Output to automatic fire protection equipment Type C
7.10.4 Fault monitoring of automatic fire protection Equipment
7.11 Delays to outputs
7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line technology)
7.12.3 Dependencies on more than one alarm signal type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of addressable points
10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC2030

Control and Indicating Equipment

126bn/02

Incorporating as modular units:

FCM2027 PMI- & Mainboard
FCM2028-A2 Operating unit
FCM2037-A2 Operating unit (w/o accs.)
SV24V-150W 150W Power supply
FCI2002-A1 Periphery board (2-Loop)
FCA2007-A1 Card cage (2 slot)

Certificated Products

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and as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2006-A1	Connection mod. (card cage)
FCA2007-A1	Card cage
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module
FCI2003-A1	Loop expansion (Fdnet)
FCI2007-A1	I/O Card RT
FCI2008-A1	I/O Card (programmable)
FCI2009-A1	I/O Card Horn
FCL2001-A1	Line Card (Fdnet)
FCL2002-A1	Line Card (collective)
FCL2003-A1	Line Card (MS9i)
FCL2005-A1	Linecard (AnalogPlus)
FCL2006-A1	Linecard (Interactive)
FCL2007-A1	Linecard (InteractiveEx)
FCM2036-A2	Operating addition (4 xLED indication)
FCM2015-D1	Operating add-on (DA ind)
FCM2036-A2	Operating add-on (4xLED indication)
FCM2038-A2	Operating add-on (2xLED indication)
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)
FN2012-A1	Ethernet Switch (modular)
FTO2001-A1	Event printer set
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)
FC2030-CR	Housing Rear (CH)
FHA2003-A1	Rear housing comfort

Certified with the following Options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm Confirmation from fire alarm routing equipment
- 7.10.1 Output to automatic fire protection equipment Type A
- 7.10.2 Output to automatic fire protection equipment Type B
- 7.10.3 Output to automatic fire protection equipment Type C
- 7.10.4 Fault monitoring of automatic fire protection Equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, AnalogPlus-, Interactive - & InteractiveEx-line Technology)
- 7.12.2 Dependencies on more than one alarm signal type B
- 7.12.3 Dependencies on more than one alarm signal type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC2040

Control and Indicating Equipment

126bn/03

Incorporating as modular units:

FCM2027 PMI- & Mainboard	
FCM2028-A2	Operating unit
FCM2037-A2	Operating unit (w/o accs.)
SV24V-150W	150W Power supply
FCI2004-A1	Periphery board (4-Loop)

and as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module
FCI2003-A1	Loop expansion (Fdnet)
FCM2036-A2	Operating add-on (4xLED indication) optional
FCM2038-A2	Operating add-on (2xLED indication) optional
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

FN2012-A1	Ethernet Switch (modular)
FTO2001-A1	Event printer set
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)
FHA2003-A1	Rear housing comfort
FHA2005-A1	Rear Housing Large

Certified with the following Options with requirements from EN 54-2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm Confirmation from fire alarm routing equipment
7.10.1	Output to automatic fire protection equipment Type A
7.10.2	Output to automatic fire protection equipment Type B
7.10.3	Output to automatic fire protection equipment Type C
7.10.4	Fault monitoring of automatic fire protection Equipment
7.11	Delays to output
7.12.2	Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology)
7.12.3	Dependencies on more than one alarm signal type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC2060

Control and Indicating Equipment

126bn/04

Incorporating as modular units:

FCM2027	PMI- & Mainboard
FCM2028-A2	Operating unit
FCM2037-A2	Operating unit (w/o accs.)
SV24V-150W	150W Power supply
FCI2004-A1	Periphery board (4-Loop)
FCA2008-A1	Card cage (5 slot)

and as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2006-A1	Connection mod. (card cage)
FCA2008-A1	Card cage (5 slot)
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module
FCI2003-A1	Loop expansion (FDnet)
FCI2004-A1	Periphery board 4 loop
FCI2007-A1	I/O Card RT
FCI2008-A1	I/O Card (programmable)
FCI2009-A1	I/O Card Horn
FCL2001-A1	Line Card (FDnet)
FCL2002-A1	Line Card (collective)
FCL2003-A1	Line Card (MS9i)
FCL2005-A1	Linecard (AnalogPlus)
FCL2006-A1	Linecard (Interactive)
FCL2007-A1	Linecard (InteractiveEx)
FCM2036-A2	Operating add-on (4xLED indication)
FCM2038-A2	Operating add-on (2xLED indication)
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)
FN2012-A1	Ethernet Switch (modular)
FTO2001-A1	Event printer set
FTO2003-D1	LED emergency alarm indicator
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)
FHA2005-A1	Rear housing large

Certified with the following Options with requirements from EN 54-2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment

Certificated Products

**LPCB Ref.
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- 7.9.2 Alarm Confirmation from fire alarm routing equipment
- 7.10.1 Output to automatic fire protection equipment Type A
- 7.10.2 Output to automatic fire protection equipment Type B
- 7.10.3 Output to automatic fire protection equipment Type C
- 7.10.4 Fault monitoring of automatic fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal type A (only for MS9i-, collective-, AnalogPlus-, Interactive - & InteractiveEx-line Technology)
- 7.12.2 Dependencies on more than one alarm signal type B
- 7.12.3 Dependencies on more than one alarm signal type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

FC721

Control and Indicating Equipment

126bn/05

Incorporating as modular units:

- FCM7204-Z3 Operating unit
- FCM7215-Y3 Operating unit (w/o acces.)
- FP2015-A1 70W Power supply
- FCI2010-A1 Periphery board (1-Loop)
- FCM2027 PMI- & Mainboard

and as optional modular units:

- FCA2001-A1 RS232 Module (isolated)
- FCA2002-A1 RS485 Module (isolated)
- FCM7213-Y3 Operating add-on (2xLED indication)
- FCM7214-Y3 Operating add-on (4xLED indication)
- FTO2001-A1 Event printer set
- FTO2008-A1 LED module
- FHA2001-A1 Rear Housing (Eco)

Certified with the following Options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm Confirmation from fire alarm routing equipment
- 7.10.1 Output to automatic fire protection equipment Type A
- 7.10.2 Output to automatic fire protection equipment Type B
- 7.10.3 Output to automatic fire protection equipment Type C
- 7.10.4 Fault monitoring of automatic fire protection equipment
- 7.11 Delays to outputs
- 7.12.2 Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology)
- 7.12.3 Dependencies on more than one alarm signal type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

FC722

Control and Indicating Equipment

126bn/06

Incorporating as modular units:

- FCM2027 PMI- & Mainboard
- FCM7204-Z3 Operating unit
- FCM7215-Y3 Operating unit (w/o acces.)
- SV24V/150W 150W Power supply
- FCI2002-A1 Periphery board (2-Loop)

and as optional modular units:

- FCA2001-A1 RS232 Module (isolated)
- FCA2002-A1 RS485 Module (isolated)
- FCA2031-A1 Connection Module (MoNet)
- FCI2001-D1 Fire brigade periphery module

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

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No.

FCI2003-A1	Loop expansion (FDnet)
FCM7213-Y3	Operating add-on (2xLED indication)
FCM7214-Y3	Operating add-on (4xLED indication)
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)
FN2012-A1	Ethernet Switch (modular)
FP2015-A1	Power Supply 70W
FTO2001-A1	Event printer set
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)
FHA2002-A1	Rear wall Standard
FHA2003-A1	Rear Housing Comfort

Certified with the following Options with requirements from EN 54-2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm Confirmation from fire alarm routing equipment
7.10.1	Output to automatic fire protection equipment Type A
7.10.2	Output to automatic fire protection equipment Type B
7.10.3	Output to automatic fire protection equipment Type C
7.10.4	Fault monitoring of automatic fire protection equipment
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-line Technology)
7.12.3	Dependencies on more than one alarm signal type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality.
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

FC724

Control and Indicating Equipment

126bn/07

Incorporating as modular units:

FCM7204-Z3	Operating unit
FCM7215-Y3	Operating unit (w/o acces.)
SV24V/150W	150W Power supply
FCI2004-A1	Periphery board (4-Loop)
FCM2027	PMI- & Mainboard

and as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module
FCI2003-A1	Loop expansion (Fdnet)
FCM7213-Y3	Operating add-on (2xLED indication)
FCM7214-Y3	Operating add-on (4xLED indication)
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)
FN2012-A1	Ethernet Switch (modular)
FTO2001-A1	Event printer set
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)
FHA2003-A1	Rear housing comfort

Certified with the following Options with requirements from EN 54-2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm Confirmation from fire alarm routing equipment
7.10.1	Output to automatic fire protection equipment Type A
7.10.2	Output to automatic fire protection equipment Type B
7.10.3	Output to automatic fire protection equipment Type C
7.10.4	Fault monitoring of automatic fire protection equipment
7.11	Delays to outputs
7.12.2	Dependencies on more than one alarm signal type B (only for FDnet- & MS9i-

Certificated Products

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line Technology)
7.12.3 Dependencies on more than one alarm signal type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

FC726

Control and Indicating Equipment

126bn/08

Incorporating as modular units:

FCM7204-Z3 Operating unit
FCM7215-Y3 Operating unit (w/o acces.)
FCA2006-A1 Connection mod. (card cage)
SV24V/150W 150W Power supply
FCI2004-A1 Periphery board (4-Loop)
FCA2008-A1 Card cage (5 slot)
FCM2027 PMI- & Mainboard

and as optional modular units:

FCA2001-A1 RS232 Module (isolated)
FCA2002-A1 RS485 Module (isolated)
FCA2031-A1 Connection Module (MoNet)
FCI2001-D1 Fire brigade periphery module
FCI2003-A1 Loop expansion (FDnet)
FCI2007-A1 I/O Card RT
FCI2008-A1 I/O Card (programmable)
FCI2009-A1 I/O Card Horn
FCL2001-A1 Line Card (FDnet)
FCL2002-A1 Line Card (collective)
FCL2003-A1 Line Card (MS9i)
FCL2006-A1 Linecard (Interactive)
FCL2007-A1 Linecard (InteractiveEx)
FCL7201-Z3 Linecard (SynoLoop)
FCM7213-Y3 Operating add-on (2xLED indication)
FCM7214-Y3 Operating add-on (4xLED indication)
FN2001-A1 Network module (SAFEDLINK) (See note 1)
FN2008-A1 Ethernet Switch (MM) (see note 1)
FN2012-A1 Ethernet Switch (MM/SM))
FTO2001-A1 Event printer set
FTO2003-D1 LED emergency alarm indicator
FTO2008-A1 LED module
VN2002-A1 Ethernet module (MM)
VN2003-A1 Ethernet module (SM)
FHA2005-A1 Rear housing large

Certified with the following Options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm Confirmation from fire alarm routing equipment
7.10.1 Output to automatic fire protection equipment Type A
7.10.2 Output to automatic fire protection equipment Type B
7.10.3 Output to automatic fire protection equipment Type C
7.10.4 Fault monitoring of automatic fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal A (only for MS9i-, collective-, SynoLoop-, Interactive - & InteractiveEx- line Technology)
7.12.2 Dependencies on more than one alarm signal type B
7.12.3 Dependencies on more than one alarm signal type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

FC723

Control and Indicating Equipment

126bn/09

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Incorporating as modular units:

FCM7204-Z3	Operating unit
FCM7215-Y3	Operating unit (w/o acces.)
FCA2006-A1	Connection mod. (card cage)
FCA2007-A1	Card cage (2slot)
SV24V/150W	150W Power supply
FCI2002-A1	Periphery board (2-Loop)
FCM2027	PMI- & Mainboard

and as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002-A1	RS485 Module (isolated)
FCA2031-A1	Connection Module (MoNet)
FCI2001-D1	Fire brigade periphery module
FCI2003	Loop expansion (Fdnet)
FCI2007-A1	I/O Card RT
FCI2008-A1	I/O Card (programmable)
FCI2009-A1	I/O Card Horn
FCL2001-A1	Line Card (Fdnet)
FCL2002-A1	Line Card (collective)
FCL2003-A1	Line Card (MS9i)
FCL2006-A1	Linecard (Interactive)
FCL2007-A1	Linecard (InteractiveEx)
FCL7201-Z3	Linecard (SynoLoop)
FCM7204-Z3	Control unit
FCM7213-Y3	Operating add-on (2xLED indication)
FCM7214-Y3	Operating add-on (4xLED indication)
FN2001-A1	Network module (SAFEDLINK) (See note 1)
FN2008-A1	Ethernet Switch (MM) (see note 1)
FN2012-A1	Ethernet Switch (modular)
FTO2001-A1	Event printer set
FTO2008-A1	LED module
VN2002-A1	Ethernet module (MM)
VN2003-A1	Ethernet module (SM)
FHA2003-A1	Rear housing comfort

Certified with the following Options with requirements from EN 54-2:

7.8	Output to fire alarm devices
7.9.1	Output to fire alarm routing equipment
7.9.2	Alarm Confirmation from fire alarm routing equipment
7.10.1	Output to automatic fire protection equipment Type A
7.10.2	Output to automatic fire protection equipment Type B
7.10.3	Output to automatic fire protection equipment Type C
7.10.4	Fault monitoring of automatic fire protection Equipment
7.11	Delays to outputs
7.12.1	Dependencies on more than one alarm signal type A (only for MS9i-, collective-, SynoLoop-, Interactive - & InteractiveEx- line Technology)
7.12.2	Dependencies on more than one alarm signal type B
7.12.3	Dependencies on more than one alarm signal type C
7.13	Alarm counter
8.3	Fault signals from points
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Note:

1. Scope of approval does not include the operation of the network functionality.
2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FT2040

Fire detection terminal for use with FC2020, FC2030, FC2040 & FC2060 Control and Indicating Equipment

126bn/R01

Incorporating as modular units:

FCM2027	PMI- & Mainboard
FCM2028-A2	Operating unit
FCM2037-A2	Operating unit (w/o acces.)
FTI2001-A1	Fire terminal board
FP2015-A1	Power Supply 70W

and as optional modular units:

FCA2001-A1	RS232 Module (isolated)
FCA2002 A1	RS485 Module (isolated)

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Certificated Products

**LPCB Ref.
No.**

FCA2031-A1 Connection Module (MoNet)
 FCM2036-A2 Operating add-on (4xLED indication)
 FCM2038-A2 Operating add-on (2xLED indication)
 FN2001-A1 Network module (SAFEDLINK) (See note 1)
 FN2008-A1 Ethernet Switch (MM) (see note 1)
 FN2012-A1 Ethernet Switch (MM/SM)
 FTO2001-A1 Event printer set
 FTO2008-A1 LED module
 VN2002-A1 Ethernet module (MM)
 VN2003-A1 Ethernet module (SM)
 FHA2001-A1 Rear housing (Eco)
 H28G200 Housing base

Notes:

1. *Scope of approval does not include the operation of the network functionality.*
2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13*

FT724 Fire detection terminal for use with FC721, FC722, FC723, FC724 & FC726 Control and Indicating Equipment 126bn/R02

Incorporating as modular units:

FCM7204-Z3 Operating unit
 FCM7215-Y3 Operating unit (w/o acces.)
 FTI2001-A1 Fire terminal board
 FP2015-A1 Power Supply 70W
 FCM2027 PMI- & Mainboard

and as optional modular units:

FCA2001-A1 RS232 Module (isolated)
 FCA2002-A1 RS485 Module (isolated)
 FCA2031-A1 Connection Module (MoNet)
 FCM7213-Y3 Operating add-on (2xLED indication)
 FCM7214-Y3 Operating add-on (4xLED indication)
 FN2001-A1 Network module (SAFEDLINK) (See note 1)
 FN2008-A1 Ethernet Switch (MM) (see note 1)
 FN2012-A1 Ethernet Switch (MM/SM)
 FTO2001-A1 Event printer set
 FTO2008-A1 LED module
 VN2002-A1 Ethernet module (MM)
 VN2003-A1 Ethernet module (SM)
 FHA2001-A1 Rear housing (Eco)
 H28G200 Metal Housing

Scope of approval does not include the operation of the network functionality.

2. *This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

FC121-ZA and FC122-ZA FC121-ZA Two Zone Conventional Control and Indicating Equipment 531q/01
 FC122-ZA Four Zone Conventional Control and Indicating Equipment

Incorporating the units:

PCBA FC121-ZA Two zone main control board with integrated power supply
 PCBA FC122-ZA Four zone main control board with integrated power supply

Optional modules:

FCA1203-Z1 Output card 2M2R
 FTO1201-H1 EVAC module (applicable on NL model only)
 FCA1206-Z1 Key switch set (applicable on Nordic SE model only)

Certified with the following options with requirements from EN 54-2: 1997

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Outputs to fire protection equipment (Type A)
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)
- 7.13 Alarm counter
- 8.9 Output to fault warning routing equipment
- 10 Test condition

FC123-ZA and FC124-ZA FC123-ZA Eight Zone Conventional Control and Indicating Equipment 531q/02
 FC124-ZA Twelve Zone Conventional Control and Indicating Equipment

Incorporating the units:

PCBA FC123-ZA Eight zone main control board

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

	PCBA FC124-ZA Twelve zone main control board FP2015-A1 Power supply (70W)	
	Optional modules: FCA1203-Z1 Output card 2M2R FTO1202-Z1 Zone indication field 12x2 LED FTO1203-H1 EVAC module (applicable on NL model only) FCA1206-Z1 Key switch set (applicable on Nordic SE model only)	
	Certified with the following options with requirements from EN 54-2: 1997 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.13 Alarm counter 8.9 Output to fault warning routing equipment 10 Test condition	
FC361-xx	FC361-ZZ Analogue Addressable Control and Indicating Equipment FC361-YZ Analogue Addressable Control and Indicating Equipment FC361-ZA Analogue Addressable Control and Indicating Equipment FC361-YA Analogue Addressable Control and Indicating Equipment	531q/03
	FC361-ZZ Control and Indicating Equipment Compact (Standard Housing) Incorporating the following modules: A5Q00060781 Main Board A5Q00058210 PMI Personnel Machine Interface S54400-B121-A1 FP2015-A1 Power Supply (70 W)	
	and as optional modules: FCA3602-Z1 Output card 4M FCA3601-Z1 Key switch (no pcb assembly) FCA3603-Z1 Key switch - Nordic (no pcb assembly) FCA2001-A1 RS232 module FCA2002-A1 RS485 module FTO3601-H1 Evacuation-NL card	
	FC361-YZ Control and Indicating Equipment Compact LED (Standard Housing) Incorporating the following modules: A5Q00060781 Main Board A5Q00058210 PMI Personnel Machine Interface S54400-B121-A1 FP2015-A1 Power Supply (70 W) FTO3602-Z1 LED module (16 LEDs)	
	and as optional modules: FCA3602-Z1 Output card 4M FCA3601-Z1 Key switch (no pcb assembly) FCA3603-Z1 Key switch - Nordic (no pcb assembly) FCA2001-A1 RS232 module FCA2002-A1 RS485 module	
	FC361-ZA Control and Indicating Equipment Comfort (Large Housing) Incorporating the following modules: A5Q00060781 Main Board A5Q00058210 PMI Personnel Machine Interface S54400-B121-A1 FP2015-A1 Power Supply (70 W)	
	and as optional modules: FCA3602-Z1 Output card 4M FCA3601-Z1 Key switch (no pcb assembly) FCA3603-Z1 Key switch - Nordic (no pcb assembly) FCA2001-A1 RS232 module FCA2002-A1 RS485 module FTO3601-H1 Evacuation-NL card	
	FC361-YA Control and Indicating Equipment Comfort LED (Large Housing) Incorporating the following modules: A5Q00060781 Main Board A5Q00058210 PMI Personnel Machine Interface S54400-B121-A1 FP2015-A1 Power Supply (70 W)	

Certificated Products

LPCB Ref. No.

FTO3602-Z1 LED module (16 LEDs)

and as optional modules:

FCA3602-Z1 Output card 4M
 FCA3601-Z1 Key switch - (no pcb assembly)
 FCA3603-Z1 Key switch - Nordic (no pcb assembly)
 FCA2001-A1 RS232 module
 FCA2002-A1 RS485 module

Certified with the following options with requirements from EN 54-2: 1997

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Outputs to fire protection equipment (Output Type A)
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of each address point
- 10 Test condition

Notes:

1. FC361-x1x2 denotes the following:
 - x1: Z = No LED module; Y = With LED module
 - x2: Z = Housing for 12 Ah Battery; A = Housing for 25 Ah battery
2. This product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13

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Certificate No: 042bc to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 042cb-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 042cc-(cl-1) to EN 54-2: 1997+ A1: 2006 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref. No.

Sentri1 Single loop analogue addressable control and indicating equipment
Incorporating as modular units:
 2434-881 Mother board
 2434-862 Power supply
 2434-887 H.M.I (Human Machine Interface)

042bc/01

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices
- 7.11 Delays to outputs
- 8.3 Fault signals from points
- 10 Test condition

Sentri2 Two loop analogue addressable control and indicating equipment (English language)
 Sentri4 One to Four loop analogue addressable control and indicating equipment (English language)

042bc/04

042bc/07

SENTRI2 One to Two Loop Analogue Addressable Control and Indicating Equipment

042cb/01

Incorporating the following modules:

SENTRI2-MCB-N Master Control Board networkable
 SENTRI2-PSU-N Power Supply Unit
 SENTRI2-IDOOR Display and Key card (DKC)
 SENTRI2-LPC-EN Loop processor card
 SENTRI2-NC Copper network card

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.11 Delays to outputs
- 8.3 Fault signals from points

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Certificated Products		LPCB Ref. No.
	9.5 <i>Disablement of each address point</i> 10 <i>Test condition</i>	
	<i>Notes:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i> 2. <i>Scope of approval does not include the operation of the network functionality.</i>	
SENTRI4	One to Four Loop Analogue Addressable Control and Indicating Panel <i>Incorporating the following modules:</i> SENTRI4-LPC-EN <i>SENTRI Loop Card</i> SENTRI4-MCC-24 <i>Local Controller Card</i> SENTRI4-NC <i>Copper Network Card</i> SENTRI4-PSU-24 <i>Power Supply Unit</i> SENTRI4-BPlane <i>Backplane</i> SENTRI4-IDOOR <i>SENTRI Display Board - D.K.C</i> SENTRI4-PRIN <i>Printer Assembly</i>	042cc/01
	<i>Certified with the following options with requirements from EN54-2:</i> 7.8 <i>Output to fire alarm device(s)</i> 7.11 <i>Delays to outputs</i> 8.3 <i>Fault signals from points</i> 9.5 <i>Disablement of each address point</i> 10 <i>Test condition</i>	
	<i>Note:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i> 2. <i>Scope of approval does not include the operation of the network functionality</i>	

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Certificate No: 548p-(cl-6) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products		LPCB Ref. No.
SP-200-2/2	Intelligent 2 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment <i>Incorporating the following units:</i> MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.312d Zone indication and intervention board LC200/ F7.820.1125 Loop board <i>Incorporating as optional modular units:</i> P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit <i>Certified with the following options with requirements from EN 54 part 2:</i> 7.8 <i>Output to Fire Alarm Devices</i> 7.10.1 <i>Output to automatic Fire Protection Equipment Type A</i> 7.11 <i>Delays to outputs</i> 8.3 <i>Fault signals from points</i> 9.5 <i>Disablement of addressable points</i>	548p/01
SP-IFP8	Intelligent 8 Loop, 140 Zone Analogue Addressable Control and Indicating Equipment <i>Incorporating the following units:</i> SB-800 <i>Indication board</i> SI-CIFP8 Loop board	548p/02

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

PB-800 Power board
 ZP-800 ZCP board
 KB-800 Keypad board
 MB-800 Main board
 MO-800 Mother board
 PS-800 Switch Mode Power Supply SP-320-27 Incorporating as optional modular units:
 SI-9935 Communication Card
 SI-9935Modbus RS232 ModBus Communication Card
 SI-9945RP Repeater Card
 SI-9945A Class A RS485 Network Card
 SI-9965 Class B CAN Network Card
 SI-9965A Class A CAN Network Card
 SI-9904 Printer Interface Card

Certified with the following options with requirements from EN 54 Part 2:
 7.8 Output to fire alarm devices
 7.9.1 Output to fire routing equipment
 7.9.2 Alarm confirmation input from fire routing equipment
 7.10.1 Output type A
 7.10.2 Output type B
 7.11 Delays to outputs
 7.12.1 Dependencies on more than one alarm signal - Type A
 7.12.2 Dependencies on more than one alarm signal - Type B
 7.13 Alarm counter
 8.3 Fault signals from points
 9.5 Disablement of each address point
 10 Test condition

Notes:

1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

SP-102A

2 Zone Conventional Control and Indicating Equipment
 Incorporating the following modules:
 FC-102A/ F7.843.399 Membrane
 CB-102A/ F2.908.1719 Control board with integrated PSE
 DB-102A/ F2.908.1722 Display board

548p/03

Optional modules:
 CF-102A/ F7.843.421 Membrane

Certified with the following options with requirements from EN 54 Part 2:
 7.8 Output to fire alarm devices
 7.9.1 Output to fire routing equipment
 7.11 Delays to outputs
 10 Test condition

SP-104A

4 Zone Conventional Control and Indicating Equipment
 Incorporating the following modules:
 FC-104A/ F7.843.400 Membrane
 CB-104A/ F2.908.1718 Control board with integrated PSE
 DB-104A/ F2.908.1721 Display board

548p/04

Optional modules:
 CF-104A/ F7.843.422 Membrane

Certified with the following options with requirements from EN 54 Part 2:
 7.8 Output to fire alarm devices
 7.9.1 Output to fire routing equipment
 7.11 Delays to outputs
 10 Test condition

SP-108A

8 Zone Conventional Control and Indicating Equipment
 Incorporating the following modules:
 FC-108A/ F7.843.401 Membrane
 CB-108A/ F2.908.1675 Control board with integrated PSE
 DB-108A/ F2.908.1720 Display board

548p/05

Optional modules:
 CF-108A/ F7.843.423 Membrane

Certified with the following options with requirements from EN 54 Part 2:
 7.8 Output to fire alarm devices

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Certificated Products	LPCB Ref. No.
<p>7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition</p> <p>SP-116A 16 Zone Conventional Control and Indicating Equipment Incorporating the following modules: FC-116A/ F7.843.402 Membrane CB-116A/ F2.908.1724 Control board with integrated PSE DB-116A/ F2.908.1676 Display board XB-116A/ F7.820.1677 Expansion board</p> <p>Optional modules: CF-116A/ F7.843.424 Membrane</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire routing equipment 7.11 Delays to outputs 10 Test condition</p>	548p/06
<p>SP-200N-2 Intelligent 2 loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220N Main board PS-220N Power management board OX-220 Terminal board ZP-220 Zone indication and intervention board SB-220 Switch board TB-220N Loop interface board LC200 Loop board PDF-150-27.5 Powered SMPS 100-240V power supply Incorporating as optional modular units: SI-9930 RS-232 board for configuration SI-9901A Printer module kit SI-9960A CAN network card loop type board SI-9930ModBus RS232 Modbus interface card SI-9940A RS485 Class A network card SI-9960 CAN Class B network card Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points</p> <p>Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</p>	548p/07
<p>SP-200-2/1 Intelligent 1 Loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220/ F7.820.826 Main board SB-220/ F7.820.827 Switch board TB-220/ F7.820.828 Loop interface board PS-220/ F7.820.829b Power supply unit ZP-220/ F7.820.913a Zone indication and intervention board Incorporating as optional modular units: P-9930/ F7.820.913a RS-232 board for configuration P-9901A Printer module kit LC200/ F7.820.1125 Loop board (for loop expansion)</p> <p>Certified with the following options with requirements from EN 54 part 2: 7.8 Output to Fire Alarm Devices 7.10.1 Output to automatic Fire Protection Equipment Type A 7.11 Delays to outputs 8.3 Fault signals from points 9.5 Disablement of addressable points</p>	548p/08
<p>Note: can be extended to 2 loop panel by adding LC200</p> <p>SP-200N-1 Intelligent 2 loop, 30 Zone Analogue Addressable Control and Indicating Equipment Incorporating the following units: MB-220N Main board PS-220N Power management board OX-220 Terminal board ZP-220 Zone indication and intervention board</p>	548p/11

Certificated Products

**LPCB Ref.
No.**

SB-220 Switch board
TB-220N Loop interface board
PDF-150-27.5 Powered SMPS 100-240V power supply

Incorporating as optional modular units:
SI-9930 RS-232 board for configuration
SI-9901A Printer module kit
SI-9960A CAN network card loop type board
SI-9930ModBus RS232 Modbus interface card
SI-9940A RS485 Class A network card
SI-9960 CAN Class B network card
LC200 Loop board (for loop expansion)

Certified with the following options with requirements from EN 54 part 2:
7.8 Output to Fire Alarm Devices
7.10.1 Output to automatic Fire Protection Equipment Type A
7.11 Delays to outputs
8.3 Fault signals from points
9.5 Disablement of addressable point

Notes:
1. Can be extended to 2-loop panel by adding LC200
2. Scope of approval does not include the operation of the network functionality
3. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

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Certificate No: 176b-(cl-3) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 +A2:2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

CFP702-4/SYN Two Zone Red Conventional Control and Indicating Equipment

176b/07

Incorporating the following units:
SPF0702480 Switch mode power supply unit board
SPF0724851 2 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997
7.8 Output to fire alarm devices(s)
7.11 Delays to outputs
10 Test condition

CFP704-4/SYN Four Zone Red Conventional Control and Indicating Equipment

176b/08

Incorporating the following units:
SPF0702480 Switch mode power supply unit board
SPF0724853 4 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997
7.8 Output to fire alarm devices(s)
7.11 Delays to outputs
10 Test condition

CFP708-4/SYN Eight Zone Red Conventional Control and Indicating Equipment

176b/09

Incorporating the following units:
SPF0702480 Switch mode power supply unit board
SPF0724855 8 Zone main control board

Certified with the following options with requirements from EN 54-2: 1997
7.8 Output to fire alarm devices(s)
7.11 Delays to outputs
10 Test condition

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

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Certificate No: 1330h-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

TX7004 1 to 4 loop Intelligent Addressable Control and Indicating Equipment
Incorporating the following modules:

7010200004	TX7004 Mother Board
7020100022	TX7004 Main Board
7010700017	TX7004 Loop Board
7010400011	TX7004 Power Management Board
7010600019	TX7004 Communication Board
7010400012	TX7004 Power Wiring Board
PDF-150-27.5	Power Supply Unit
7021300007	TX7004 Key Board
7020800009	TX7004 Led Board
7010300010	TX7004 Regional Display Board
814400002	TX6940E Printer Module

**LPCB Ref.
No.**
1330h/01

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.13 Alarm counter

9.5 Disabling of each address point

10 Test condition

Note:

1. The scope of the approval does not include the operation of the network functionality
2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

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E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330h-(cl-4) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

TX7004 1 to 4 loop Intelligent Addressable Control and Indicating Equipment

**LPCB Ref.
No.**
1330h/01

Certificated Products

**LPCB Ref.
No.**

Incorporating the following modules:
7010200004 TX7004 Mother Board
7020100022 TX7004 Main Board
7010700017 TX7004 Loop Board
7010400011 TX7004 Power Management Board
7010600019 TX7004 Communication Board
7010400012 TX7004 Power Wiring Board
PDF-150-27.5 Power Supply Unit
7021300007 TX7004 Key Board
7020800009 TX7004 Led Board
7010300010 TX7004 Regional Display Board
814400002 TX6940E Printer Module

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)

7.10.1 Output to fire protection equipment - Type A

7.11 Delays to outputs

7.12.1 Dependencies on more than one alarm signal- Type A

7.12.2 Dependencies on more than one alarm signal -Type B

7.13 Alarm counter

9.5 Disablement of each address point

10 Test condition

Note:

- 1. The scope of the approval does not include the operation of the network functionality*
- 2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.*

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Certificate No: 1139h to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

**LPCB Ref.
No.**

IRIS IRIS (1-4)L M - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, metal housing
IRIS (1-4)L P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel, plastic housing

Incorporating the following modular units:

<i>uPC Board</i>	<i>Module IRIS uPC</i>
<i>LCD Board</i>	<i>Module IRIS LCD</i>
<i>LED Board and LED</i>	<i>Module IRIS Light Panel includes boards uPC, LCD</i>
<i>Outputs Board</i>	<i>Module IRIS Outputs</i>
<i>Relay Board</i>	<i>Module IRIS 4 Relay</i>
<i>PSU Board</i>	<i>IRIS Module Power supply</i>
<i>Redundant Network Board</i>	<i>Module Redundant Network IRIS/SIMPO</i>
<i>Loop TTE Board</i>	<i>IRIS Loop Expander TTE</i>

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices (option with requirements)

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No.

- 7.9 Control of fire alarm routing equipment (options with requirements)
- 7.9.1 Output to fire alarm routing equipment (option with requirements)
- 7.10 Outputs to fire protection equipment (options with requirements)
- 7.10.1 Output type A (option with requirement)
- 7.11 Delays to outputs (option with requirements)
- 7.12 Dependencies on more than one alarm signal (option with requirements)
- 7.12.1 Type A dependency (option with requirement)
- 8.3 Fault signals from points (option with requirements)
- 9.5 Disabling of addressable point (option with requirements)
- 10 Test condition (option with requirements)

Notes:

1. The scope of the approval does not include the operation of the network functionality
2. The product approval does not constitute compliance with the fire detection and alarm system requirements of EN54-13.

IRIS-0

IRIS (0) Repeater M - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel - Repeater, metal housing
IRIS (0) Repeater P - Intelligent Analogue Addressable Interactive Fire Alarm Control Panel- Repeater, plastic housing
Approved for use with the IRIS Intelligent Analogue Addressable Interactive Fire Alarm Control Panel
Incorporating the following modules:
uPC Board Module IRIS uPC
LCD Board Module IRIS LCD
LED Board Module IRIS Light Panel includes boards uPC, LCD and LED
PSU Board IRIS Module Power supply
Redundant Network Board Module Redundant Network IRIS/SIMPO

1139h/R01

Tyco Fire & Security GmbH

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Certificate No: 681ag-(cl-3) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 681ag-(cl-2) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 681ag-(cl-1) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 681au-(cl-1) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 681ad-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 681ad-(cl-1) to EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 681ap-(cl-1) to EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 681an-(cl-1) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 681af-(cl-2) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006
Certificate No: 681ae-(cl-1) to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 681ac-(cl-2) to EN 54-4:1997 + A1:2002 + A2:2006
Certificate No: 681au-(cl-2) to EN 54-2: 1997 + A1: 2006 & EN 54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

PSU A17

Addressable 17Ah Power Supply Unit

Notes:

- 1) The unit is not intended to supply power to Fire Alarm Control Panels
- 2) The maximum lead length for the fault output connection is 3m

PSU A38

Addressable 38Ah Power Supply Unit

Notes:

- 1) The unit is not intended to supply power to Fire Alarm Control Panels
- 2) The maximum lead length for the fault output connection is 3m

557.200.731

FIRECLASS 1.9A Power Supply Unit

Notes:

681ac/01

681ac/02

681ad /03

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CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> PSU A17 Addressable 17Ah Power Supply Unit Notes: 1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> 2) <i>The maximum lead length for the fault output connection is 3m</i></p>	681ad/01
<p>PSU A17 Addressable 17Ah Power Supply Unit Notes: 1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> 2) <i>The maximum lead length for the fault output connection is 3m</i></p>	681ad/01
<p>PSU A38 Addressable 38Ah Power Supply Unit Notes: 1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> 2) <i>The maximum lead length for the fault output connection is 3m</i></p>	681ad/02
<p>PSU A38 Addressable 38Ah Power Supply Unit Notes: 1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> 2) <i>The maximum lead length for the fault output connection is 3m</i></p>	681ad/02
<p>FIRECLASS 1.9A Power Supply Unit Notes: 1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> 2) <i>The maximum lead length for the fault output connection is 3m</i></p>	681ad/03
<p>FIRECLASS 1.9A Power Supply Unit Notes: 1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> 2) <i>The maximum lead length for the fault output connection is 3m</i></p>	681ad/03
<p>1) <i>The unit is not intended to supply power to Fire Alarm Control Panels</i> MZXC 2 Zone, Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605508, 2 Zone Twin Wire Motherboard BAQ-35T24 Power Supply</p>	681ae/01
<p><i>Certified with the following options from EN 54-2:</i> 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.12.1 <i>Dependencies on more than one alarm signal Type A</i> 7.13 <i>Alarm counter</i> 10 <i>Test condition</i></p>	
<p>Note: <i>xx indicates the language option</i> <i>EG = English facia overlay</i></p>	
<p>MZXC 4 Zone, Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605509, 4 Zone Twin Wire Motherboard BAQ-35T24 Power Supply</p>	681ae/02
<p><i>Certified with the following options from EN 54-2:</i> 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.12.1 <i>Dependencies on more than one alarm signal Type A</i> 7.13 <i>Alarm counter</i> 10 <i>Test condition</i></p>	
<p>Note: <i>xx indicates the language option</i> <i>EG = English facia overlay</i></p>	
<p>MZXC 8 Zone Twin Wire Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605510, 8 Zone Twin Wire Motherboard BAQ-35T24 Power Supply</p>	681ae/03
<p><i>Certified with the following options from EN 54-2:</i> 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.12.1 <i>Dependencies on more than one alarm signal Type A</i> 7.13 <i>Alarm counter</i> 10 <i>Test condition</i></p>	
<p>Note: <i>xx indicates the language option</i> <i>EG = English facia overlay</i></p>	
<p>FIRECLASS Duo-CEL, 1 Zone Conventional Control and Indicating Equipment Incorporating as modular units: C1694 - 2605501, 1 Zone Motherboard BAQ-35T24 Power Supply</p>	681af/01
<p><i>Certified with the following options from EN 54-2:</i> 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.12.1 <i>Dependencies on more than one alarm signal - Type A</i> 7.13 <i>Alarm counter</i></p>	

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Certificated Products	LPCB Ref. No.
508.031.702 10 Test condition FIRECLASS Duo-CEL, 2 Zone Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605502, 2 Zone Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal Type A 7.13 Alarm counter 10 Test condition	681af/02
508.031.005.xx MZXC 4 zone Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605503, 4 Zone Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal Type A 7.13 Alarm counter 10 Test condition Note: xx indicates the language option Blank = Blank facia overlay	681af/03
508.031.703 FIRECLASS Duo-CEL, 4 zone Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605503, 4 Zone Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal Type A 7.13 Alarm counter 10 Test condition	681af/03
508.031.006.xx MZXC 8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605504, 8 Zone Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal Type A 7.13 Alarm counter 10 Test condition Note: xx indicates the language option Blank = Blank facia overlay	681af/04
508.031.704 FIRECLASS Duo-CEL, 8 Zone Conventional Control and Indicating Equipment Incorporating as modular units: C1694 2605504, 8 Zone Motherboard BAQ-35T24 Power Supply Certified with the following options from EN 54-2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.12.1 Dependencies on more than one alarm signal Type A 7.13 Alarm counter 10 Test condition	681af/04
508.031.016.xx Fire Alarm Repeater (Mains) Incorporating as modular units: C1694 2605505, Repeater Motherboard BAQ-35T24 Power Supply Notes: 1) Compatible with 508.031.005.xx & 508.031.006.xx panels. 2) Also compatible with 508.031.005.xx & 508.031.006.xx twin wire conventional panels on certificate 018r. 3) xx indicates the language option	681af/R01

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CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p style="text-align: center;"><i>Blank = Blank facia overlay</i> <i>EG = English facia overlay</i></p> <p>508.031.705 FIRECLASS Duo-CEL, Fire Alarm Repeater (Mains) <i>Incorporating as modular units:</i> C1694 2605505, Repeater Motherboard BAQ-35T24 Power Supply</p>	681af/R01
<p><i>Note: Compatible with 508.031.703 & 508.031.704 panels only.</i></p> <p>508.031.706 FIRECLASS Duo-CEL, Fire Alarm Repeater (24 VDC). <i>Incorporating as a modular unit:</i> C1694 2605506, Repeater Motherboard</p>	681af/R02
<p><i>Note: Compatible with 508.031.703 & 508.031.704 panels only.</i></p> <p>557.200.501.F MZX125.32Z Analogue Addressable Control and Indicating Equipment 1 Loop, 32 Zone <i>Incorporating as modular units:</i> DCM832R Operator Control / Display Module CPU800 Main CPU module FIM801 Field Interface Module PMM800 Power Supply Monitor BAQ60T24 Power Supply</p> <p><i>Certified with the following options with requirements from EN 54 Part 2:</i></p> <ul style="list-style-type: none"> 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disabling of addressable points 10 Test condition 11 Standardized input/output interface <p><i>Note:</i></p> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	681ag/01
<p>FC32-1 MZX125.32Z Analogue Addressable Control and Indicating Equipment 1 Loop, 32 Zone (557.200.701) <i>Incorporating as modular units:</i> DCM832R Operator Control / Display Module CPU800 Main CPU module FIM801 Field Interface Module PMM800 Power Supply Monitor BAQ60T24 Power Supply</p> <p><i>Certified with the following options with requirements from EN 54 Part 2:</i></p> <ul style="list-style-type: none"> 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disabling of addressable points 10 Test condition 11 Standardized input/output interface <p><i>Note:</i></p>	681ag/01

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CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
557.200.502.F	681ag/02
<p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p> <p>MZX253 Analogue Addressable Control and Indicating Equipment 2 Loop, 64 Zone</p> <p>Incorporating as modular units:</p> <p>DCM864R Operator Control / Display Module</p> <p>CPU800 Main CPU module</p> <p>FIM802 Field Interface Module</p> <p>PMM800 Power Supply Monitor</p> <p>BAQ140T24 Power Supply</p> <p>and as optional modular units:</p> <p>IOB800 Input/Output Expansion Board</p> <p>Certified with the following options with requirements from EN 54-2:</p> <p>7.8 Output to fire alarm devices</p> <p>7.9.1 Output to fire alarm routing equipment</p> <p>7.9.2 Alarm confirmation input from fire alarm routing equipment</p> <p>7.10.1 Outputs to fire protection equipment (Type A)</p> <p>7.10.2 Outputs to fire protection equipment (Type B)</p> <p>7.10.3 Outputs to fire protection equipment (Type C)</p> <p>7.10.4 Fault monitoring of fire protection equipment</p> <p>7.11 Delays to outputs</p> <p>7.12.1 Dependencies on more than one alarm signal (Type A dependency)</p> <p>7.12.2 Dependencies on more than one alarm signal (Type B dependency)</p> <p>7.12.3 Dependencies on more than one alarm signal (Type C dependency)</p> <p>7.13 Alarm counter</p> <p>8.3 Fault signals from points</p> <p>8.9 Output to fault warning routing equipment</p> <p>9.5 Disablement of addressable points</p> <p>10 Test condition</p> <p>11 Standardized input/output interface</p>	
FC64-2	681ag/02
<p>Note:</p> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p> <p>MZX253 Analogue Addressable Control and Indicating Equipment 2 Loop, 64 Zone (557.200.702)</p> <p>Incorporating as modular units:</p> <p>DCM864R Operator Control / Display Module</p> <p>CPU800 Main CPU module</p> <p>FIM802 Field Interface Module</p> <p>PMM800 Power Supply Monitor</p> <p>BAQ140T24 Power Supply</p> <p>and as optional modular units:</p> <p>IOB800 Input/Output Expansion Board</p> <p>Certified with the following options with requirements from EN 54-2:</p> <p>7.8 Output to fire alarm devices</p> <p>7.9.1 Output to fire alarm routing equipment</p> <p>7.9.2 Alarm confirmation input from fire alarm routing equipment</p> <p>7.10.1 Outputs to fire protection equipment (Type A)</p> <p>7.10.2 Outputs to fire protection equipment (Type B)</p> <p>7.10.3 Outputs to fire protection equipment (Type C)</p> <p>7.10.4 Fault monitoring of fire protection equipment</p> <p>7.11 Delays to outputs</p> <p>7.12.1 Dependencies on more than one alarm signal (Type A dependency)</p> <p>7.12.2 Dependencies on more than one alarm signal (Type B dependency)</p> <p>7.12.3 Dependencies on more than one alarm signal (Type C dependency)</p> <p>7.13 Alarm counter</p> <p>8.3 Fault signals from points</p> <p>8.9 Output to fault warning routing equipment</p> <p>9.5 Disablement of addressable points</p> <p>10 Test condition</p> <p>11 Standardized input/output interface</p>	
557.200.508.F4	681ag/03
<p>Note:</p> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p> <p>MZX253 Analogue Addressable Control and Indicating Equipment 4 Loop, 64 Zone</p> <p>Incorporating as modular units:</p>	

Certificated Products

**LPCB Ref.
No.**

DCM864R Operator Control / Display Module
CPU800 Main CPU module
FIM802 Field Interface Module
PMM800 Power Supply Monitor
BAQ140T24 Power Supply
PMM840 Power Supply Monitor
XLM800 Loop Expander Board

and as optional modular units:

IOB800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Outputs to fire protection equipment (Type A)
- 7.10.2 Outputs to fire protection equipment (Type B)
- 7.10.3 Outputs to fire protection equipment (Type C)
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition
- 11 Standardized input/output interface

Note:

- 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC64-4

MZX253 Analogue Addressable Control and Indicating Equipment 4 Loop, 64 Zone (557.200.703)

681ag/03

Incorporating as modular units:

DCM864R Operator Control / Display Module
CPU800 Main CPU module
FIM802 Field Interface Module
PMM800 Power Supply Monitor
BAQ140T24 Power Supply
PMM840 Power Supply Monitor
XLM800 Loop Expander Board

and as optional modular units:

IOB800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Outputs to fire protection equipment (Type A)
- 7.10.2 Outputs to fire protection equipment (Type B)
- 7.10.3 Outputs to fire protection equipment (Type C)
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition
- 11 Standardized input/output interface

Note:

- 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

557.200.509.F

MZX254 Analogue Addressable Control and Indicating Equipment 2 Loop, 240 Zone

681ag/04

Incorporating as modular units:

DCM832 Operator Control / Display Module

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

CPU800 Main CPU module
FIM802 Field Interface Module
PMM800 Power Supply Monitor
BAQ140T24 Power Supply

and as optional modular units:

IOB800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire protection equipment (Type A)
7.10.2 Outputs to fire protection equipment (Type B)
7.10.3 Outputs to fire protection equipment (Type C)
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal (Type A dependency)
7.12.2 Dependencies on more than one alarm signal (Type B dependency)
7.12.3 Dependencies on more than one alarm signal (Type C dependency)
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition
11 Standardized input/output interface

Note:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC240-2

MZX254 Analogue Addressable Control and Indicating Equipment 2 Loop, 240 Zone (557.200.704)

681ag/04

Incorporating as modular units:

DCM832 Operator Control / Display Module
CPU800 Main CPU module
FIM802 Field Interface Module
PMM800 Power Supply Monitor
BAQ140T24 Power Supply

and as optional modular units:

IOB800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire protection equipment (Type A)
7.10.2 Outputs to fire protection equipment (Type B)
7.10.3 Outputs to fire protection equipment (Type C)
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal (Type A dependency)
7.12.2 Dependencies on more than one alarm signal (Type B dependency)
7.12.3 Dependencies on more than one alarm signal (Type C dependency)
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition
11 Standardized input/output interface

Note:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

557.200.509.F4

MZX254 Analogue Addressable Control and Indicating Equipment 4 Loop, 240 Zone

681ag/05

Incorporating as modular units:

DCM832 Operator Control / Display Module
CPU800 Main CPU module
FIM802 Field Interface Module
PMM800 Power Supply Monitor
BAQ140T24 Power Supply
PMM840 Power Supply Monitor

Certificated Products

**LPCB Ref.
No.**

XLM800 Loop Expander Board

and as optional modular units:

IOB800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*
- 7.10.1 Outputs to fire protection equipment (Type A)*
- 7.10.2 Outputs to fire protection equipment (Type B)*
- 7.10.3 Outputs to fire protection equipment (Type C)*
- 7.10.4 Fault monitoring of fire protection equipment*
- 7.11 Delays to outputs*
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)*
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)*
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)*
- 7.13 Alarm counter*
- 8.3 Fault signals from points*
- 8.9 Output to fault warning routing equipment*
- 9.5 Disablement of addressable points*
- 10 Test condition*
- 11 Standardized input/output interface*

Note:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

FC240-4

MZX254 Analogue Addressable Control and Indicating Equipment 4 Loop, 240 Zone (557.200.705)

681ag/05

Incorporating as modular units:

DCM832 Operator Control / Display Module

CPU800 Main CPU module

FIM802 Field Interface Module

PMM800 Power Supply Monitor

BAQ140T24 Power Supply

PMM840 Power Supply Monitor

XLM800 Loop Expander Board

and as optional modular units:

IOB800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*
- 7.10.1 Outputs to fire protection equipment (Type A)*
- 7.10.2 Outputs to fire protection equipment (Type B)*
- 7.10.3 Outputs to fire protection equipment (Type C)*
- 7.10.4 Fault monitoring of fire protection equipment*
- 7.11 Delays to outputs*
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)*
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)*
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)*
- 7.13 Alarm counter*
- 8.3 Fault signals from points*
- 8.9 Output to fault warning routing equipment*
- 9.5 Disablement of addressable points*
- 10 Test condition*
- 11 Standardized input/output interface*

Note:

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

Pro16xD

4-16 Loops Analogue Addressable Control & Indicating Equipment

681ag/06

Incorporating the following units:

ProR1DS Profile Reduced User Interface

PFI800 PROFILE Panel Field Interface Board

PSC400 PROFILE Backplane 4 Slots

PPM800 Profile Panel Mounting Frame

PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

PNI800 PROFILE Network Interface Slot Card
PCS800 PROFILE Ethernet Switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi-Mode
FB800 Fuse board (15 way)
PZ4x PROFILE 40 Way Zonal Display
PZ8x PROFILE 80 Way Zonal Display
TUD800 Triggering board for transmission unit
PLX800 PROFILE Loop Expansion Slot Card
PCH800 PROFILE Charger Slot Card
SM3 Serial Interface to FAT
SFK800 PROFILE Swiss Fire Brigade Interface
IOB800 Input/Output Expansion Board
FOM800 Fibre Optic Module
FBI800 Fire Brigade Interface

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box
PxD Profile Extension Box For Pro32xD

Pro16xBB - Approved for use with the Pro16xD Control & Indicating Equipment

Incorporating the following units:

PFI800 PROFILE Panel Field Interface Board
PSC400 PROFILE Backplane 4 Slots
PPM800 Profile Panel Mounting Frame
PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:

PNI800 PROFILE Network Interface Slot Card
PCS800 PROFILE Ethernet Switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi-Mode
FB800 Fuse board (15 way)
TUD800 Triggering board for transmission unit
PLX800 PROFILE Loop Expansion Slot Card
PCH800 PROFILE Charger Slot Card
SM3 Serial Interface to FAT
SFK800 PROFILE Swiss Fire Brigade Interface
IOB800 Input/Output Expansion Board
FOM800 Fibre Optic Module

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box
PxD Profile Extension Box For Pro32xD

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire controls for fire protection equipment - Output type A
7.10.2 Outputs to fire controls for fire protection equipment - Output type B
7.10.3 Outputs to fire controls for fire protection equipment - Output type C
7.10.4 Fault monitoring of fire controls for fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disablement of addressable points
10 Test condition
11 Output to standardised input/output interface

Pro32xD

4-32 Loops Analogue Addressable Control & Indicating Equipment

681ag/07

Incorporating the following units:

ProR1DS Profile Reduced User Interface
PFI800 PROFILE Panel Field Interface Board
PSC800 PROFILE Backplane 6 Slots
PPM800 Profile Panel Mounting Frame
PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Certificated Products

**LPCB Ref.
No.**

Incorporating the following optional modules:

PNI800 PROFILE Network Interface Slot Card
PCS800 PROFILE Ethernet Switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi-Mode
FB800 Fuse board (15 way)
PZ4x PROFILE 40 Way Zonal Display
PZ8x PROFILE 80 Way Zonal Display
TUD800 Triggering board for transmission unit
PLX800 PROFILE Loop Expansion Slot Card
PCH800 PROFILE Charger Slot Card
SM3 Serial Interface to FAT
SFK800 PROFILE Swiss Fire Brigade Interface
IOB800 Input/Output Expansion Board
FOM800 Fibre Optic Module
FBI800 Fire Brigade Interface

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box
PxD Profile Extension Box For Pro32xD

Pro32xBB - Approved for use with the Pro32xD Control & Indicating Equipment

Incorporating the following units:

PF1800 PROFILE Panel Field Interface Board
PSC800 PROFILE Backplane 6 Slots
PPM800 Profile Panel Mounting Frame
PBB801 PROFILE 5A Power Unit [With BAQ140T24 PSU]

Incorporating the following optional modules:

PNI800 PROFILE Network Interface Slot Card
PCS800 PROFILE Ethernet Switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi-Mode
FB800 Fuse board (15 way)
PZ4x PROFILE 40 Way Zonal Display
PZ8x PROFILE 80 Way Zonal Display
TUD800 Triggering board for transmission unit
PLX800 PROFILE Loop Expansion Slot Card
PCH800 PROFILE Charger Slot Card
SM3 Serial Interface to FAT
SFK800 PROFILE Swiss Fire Brigade Interface
IOB800 Input/Output Expansion Board
FOM800 Fibre Optic Module

Incorporating the following mechanical parts:

PXB800 PROFILE Ancillary Expansion Box
PxD Profile Extension Box For Pro32xD

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm devices
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Outputs to fire controls for fire protection equipment - Output type A
7.10.2 Outputs to fire controls for fire protection equipment - Output type B
7.10.3 Outputs to fire controls for fire protection equipment - Output type C
7.10.4 Fault monitoring of fire controls for fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of addressable points
10 Test condition
11 Output to standardised input/output interface

557.200.520.F

MZX16R, 32 Zone Repeater Panel
Approved for use with the 557.200.701 FireClass 32-1 control and indicating equipment

681ag/R01

Incorporating as modular units:

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
FC32RA	<p>DCM832R Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply MZX16R, 32 Zone Repeater Panel (557.200.706) Approved for use with the 557.200.701 FireClass 32-1 control and indicating equipment</p>	681ag/R01
557.200.521.F	<p>Incorporating as modular units: DCM832R Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply MZX32R, 64 Zone Repeater Panel Approved for use with the 557.200.702 FireClass 64-2 and 557.200.703 FireClass 64-4 control and indicating equipment.</p>	681ag/R02
FC64RA	<p>Incorporating as modular units: DCM864R Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply MZX32R, 64 Zone Repeater Panel (557.200.707) Approved for use with the 557.200.702 FireClass 64-2 and 557.200.703 FireClass 64-4 control and indicating equipment.</p>	681ag/R02
557.200.521.F1	<p>Incorporating as modular units: DCM864R Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply MZX32R, 240 Zone Repeater Panel Approved for use with the 557.200.704 FireClass 240-2 and 557.200.705 FireClass 240-4 control and indicating equipment.</p>	681ag/R03
FC240RA	<p>Incorporating as modular units: DCM832 Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply MZX32R, 240 Zone Repeater Panel (557.200.708) Approved for use with the 557.200.704 FireClass 240-2 and 557.200.705 FireClass 240-4 control and indicating equipment.</p>	681ag/R03
MX4000	<p>Incorporating as modular units: DCM832 Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply 2-8 loop Analogue Addressable Control and Indicating Equipment</p> <p>Notes: 1)The following product variants are approved - Finished goods No. 557.200.003, MX4000 1-4 loop CIE, shallow housing Finished goods No. 557.200.005, MX-BBX battery box, shallow housing Finished goods No. 557.200.004, MX4000 1-8 loop CIE, deep housing Finished goods No. 557.200.006, MX-DPBX battery box, deep housing (door access) Finished goods No. 557.200.016, MX-DPBX battery box, deep housing (plain cover access) Finished goods No. 557.200.009, MX4000 1-4 loop, flush housing Finished goods No. 557.200.019, MX-BBX-F battery box, flush housing</p> <p>Incorporating as modular units: OCM800 Operator Control Module ODM800 Operator Display Module CPU800 Main CPU module FIM802 Field Interface Module drives 1 or 2 loops PSU830 Power Supply Module</p> <p>and as optional modular units: XLM800 Expansion Loop Module drives 1 or 2 additional loops ANN840 40 + 40 LED Annunciator module ANN880 80 LED Annunciator module COM820 20 way Status Command Module MPM800 Multi-Purpose Interface Module IOB800 Input/Output Expansion Board FB800 Fuse Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p>	681an/01

PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

MXR	<p>7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disabling of addressable points 10 Test condition 11 Standardized input/output interface</p> <p>Repeater panel is approved for use with the MX4000 Control and Indicating</p> <p>Notes: 1)The following product variants are approved - Finished goods No. 557.200.013, MXR-PSU repeater Finished goods No. 557.200.018, MXR-PSU-F repeater flush housing Finished goods No. 557.200.012, MXR repeater Finished goods No. 557.200.017, MXR-F repeater flush housing</p> <p>Incorporating as modular units: OCM800 (Operator Control Module) ODM800 (Operator Display Module) PSU830 (Power Supply Module)</p> <p>and as optional modular units: ANN840 (40 + 40 LED Annunciator) ANN880 (80 LED Annunciator) MPM800 (Multi Purpose Interface Module) IOB800 (Input/Output Expansion Board) FB800 (Fuse Board)</p>	681an/R01
MZX-125	<p>Analogue Addressable Control and Indicating Equipment, 1 loop, 16 Zone (557.200.501)</p> <p>Incorporating as modular units: DCM816 Operator Control / Display Module CPU800 Main CPU module FIM801 Field Interface Module PMM800 Power Supply Monitor BAQ60T24 Power Supply</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disabling of addressable points 10 Test condition 11 Standardized input/output interface</p>	681ap/01
MZX-250	<p>Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone (557.200.502)</p> <p>Incorporating as modular units: DCM832 Operator Control / Display Module CPU800 Main CPU module FIM802 Field Interface Module (1 loop version Part No. 2605053) PMM800 Power Supply Monitor BAQ140T24 Power Supply</p> <p>and as an optional modular unit: IOB800 Input/Output Expansion Board</p>	681ap/02

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

	<p><i>Certified with the following options with requirements from EN 54 Part 2:</i></p> <ul style="list-style-type: none">7.8 Output to fire alarm devices7.9.1 Output to fire alarm routing equipment7.9.2 Alarm confirmation input from fire alarm routing equipment7.10.1 Outputs to fire protection equipment (Type A)7.10.2 Outputs to fire protection equipment (Type B)7.10.3 Outputs to fire protection equipment (Type C)7.10.4 Fault monitoring of fire protection equipment7.11 Delays to outputs7.12.1 Dependencies on more than one alarm signal (Type A dependency)7.12.2 Dependencies on more than one alarm signal (Type B dependency)7.12.3 Dependencies on more than one alarm signal (Type C dependency)7.13 Alarm counter8.3 Fault signals from points8.9 Output to fault warning routing equipment9.5 Disablement of addressable points10 Test condition11 Standardized input/output interface	
MZX-251	<p>Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone (557.200.503)</p> <p><i>Incorporating as modular units:</i></p> <ul style="list-style-type: none">DCM832 Operator Control / Display ModuleCPU800 Main CPU moduleFIM802 Field Interface Module (1 loop version Part No. 2605053)PMM800 Power Supply MonitorBAQ140T24 Power Supply <p><i>and as an optional modular unit:</i></p> <ul style="list-style-type: none">IOB800 Input/Output Expansion Board <p><i>Certified with the following options with requirements from EN 54 Part 2:</i></p> <ul style="list-style-type: none">7.8 Output to fire alarm devices7.9.1 Output to fire alarm routing equipment7.9.2 Alarm confirmation input from fire alarm routing equipment7.10.1 Outputs to fire protection equipment (Type A)7.10.2 Outputs to fire protection equipment (Type B)7.10.3 Outputs to fire protection equipment (Type C)7.10.4 Fault monitoring of fire protection equipment7.11 Delays to outputs7.12.1 Dependencies on more than one alarm signal (Type A dependency)7.12.2 Dependencies on more than one alarm signal (Type B dependency)7.12.3 Dependencies on more than one alarm signal (Type C dependency)7.13 Alarm counter8.3 Fault signals from points8.9 Output to fault warning routing equipment9.5 Disablement of addressable points10 Test condition11 Standardized input/output interface	681ap/03
MZX-250-CH	<p>Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone (557.200.504)</p> <p><i>Incorporating as modular units:</i></p> <ul style="list-style-type: none">DCM832 Operator Control / Display ModuleCPU800 Main CPU moduleFIM802 Field Interface Module (1 loop version Part No. 2605053)PMM800 Power Supply MonitorFBF-CH Swiss Fire Brigade InterfaceBAQ140T24 Power Supply <p><i>and as an optional modular unit:</i></p> <ul style="list-style-type: none">IOB800 Input/Output Expansion Board <p><i>Certified with the following options with requirements from EN 54 Part 2:</i></p> <ul style="list-style-type: none">7.8 Output to fire alarm devices7.9.1 Output to fire alarm routing equipment7.9.2 Alarm confirmation input from fire alarm routing equipment7.10.1 Outputs to fire protection equipment (Type A)7.10.2 Outputs to fire protection equipment (Type B)7.10.3 Outputs to fire protection equipment (Type C)7.10.4 Fault monitoring of fire protection equipment7.11 Delays to outputs7.12.1 Dependencies on more than one alarm signal (Type A dependency)7.12.2 Dependencies on more than one alarm signal (Type B dependency)7.12.3 Dependencies on more than one alarm signal (Type C dependency)7.13 Alarm counter	681ap/04

Certificated Products		LPCB Ref. No.
	8.3 <i>Fault signals from points</i> 8.9 <i>Output to fault warning routing equipment</i> 9.5 <i>Disabling of addressable points</i> 10 <i>Test condition</i> 11 <i>Standardized input/output interface</i>	
MZX-251-S	Analogue Addressable Control and Indicating Equipment, 1 loop, 32 Zone (557.200.505) Incorporating as modular units: DCM832 -S <i>Operator Control / Display Module (Scandinavian Fire Brigade Interface/key)</i> CPU800 <i>Main CPU module</i> FIM802 <i>Field Interface Module (1 loop version Part No. 2605053)</i> PMM800 <i>Power Supply Monitor</i> BAQ140T24 <i>Power Supply</i> and as an optional modular unit: IOB800 <i>Input/Output Expansion Board</i> Certified with the following options with requirements from EN 54 Part 2: 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.9.2 <i>Alarm confirmation input from fire alarm routing equipment</i> 7.10.1 <i>Outputs to fire protection equipment (Type A)</i> 7.10.2 <i>Outputs to fire protection equipment (Type B)</i> 7.10.3 <i>Outputs to fire protection equipment (Type C)</i> 7.10.4 <i>Fault monitoring of fire protection equipment</i> 7.11 <i>Delays to outputs</i> 7.12.1 <i>Dependencies on more than one alarm signal (Type A dependency)</i> 7.12.2 <i>Dependencies on more than one alarm signal (Type B dependency)</i> 7.12.3 <i>Dependencies on more than one alarm signal (Type C dependency)</i> 7.13 <i>Alarm counter</i> 8.3 <i>Fault signals from points</i> 8.9 <i>Output to fault warning routing equipment</i> 9.5 <i>Disabling of addressable points</i> 10 <i>Test condition</i> 11 <i>Standardized input/output interface</i>	681ap/05
MZX-252	Analogue Addressable Control and Indicating Equipment, 2 loop, 32 Zone (557.200.506) Incorporating as modular units: DCM832 <i>Operator Control / Display Module</i> CPU800 <i>Main CPU module</i> FIM802 <i>Field Interface Module</i> PMM800 <i>Power Supply Monitor</i> BAQ140T24 <i>Power Supply</i> and as an optional modular unit: IOB800 <i>Input/Output Expansion Board</i> Certified with the following options with requirements from EN 54 Part 2: 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.9.2 <i>Alarm confirmation input from fire alarm routing equipment</i> 7.10.1 <i>Outputs to fire protection equipment (Type A)</i> 7.10.2 <i>Outputs to fire protection equipment (Type B)</i> 7.10.3 <i>Outputs to fire protection equipment (Type C)</i> 7.10.4 <i>Fault monitoring of fire protection equipment</i> 7.11 <i>Delays to outputs</i> 7.12.1 <i>Dependencies on more than one alarm signal (Type A dependency)</i> 7.12.2 <i>Dependencies on more than one alarm signal (Type B dependency)</i> 7.12.3 <i>Dependencies on more than one alarm signal (Type C dependency)</i> 7.13 <i>Alarm counter</i> 8.3 <i>Fault signals from points</i> 8.9 <i>Output to fault warning routing equipment</i> 9.5 <i>Disabling of addressable points</i> 10 <i>Test condition</i> 11 <i>Standardized input/output interface</i>	681ap/06
MZX-252-CH	Analogue Addressable Control and Indicating Equipment, 2 loop, 32 Zone (557.200.507) Incorporating as modular units: DCM832 <i>Operator Control / Display Module</i> CPU800 <i>Main CPU module</i> FIM802 <i>Field Interface Module</i> PMM800 <i>Power Supply Monitor</i> FBF-CH <i>Swiss Fire Brigade Interface</i> BAQ140T24 <i>Power Supply</i>	681ap/07

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No.**

and as an optional modular unit:

I0B800 Input/Output Expansion Board

Certified with the following options with requirements from EN 54 Part 2:

- 7.8 Output to fire alarm devices*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*
- 7.10.1 Outputs to fire protection equipment (Type A)*
- 7.10.2 Outputs to fire protection equipment (Type B)*
- 7.10.3 Outputs to fire protection equipment (Type C)*
- 7.10.4 Fault monitoring of fire protection equipment*
- 7.11 Delays to outputs*
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)*
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)*
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)*
- 7.13 Alarm counter*
- 8.3 Fault signals from points*
- 8.9 Output to fault warning routing equipment*
- 9.5 Disablement of addressable points*
- 10 Test condition*
- 11 Standardized input/output interface*

MZX-253

Analogue Addressable Control and Indicating Equipment, 2-4 loop, 64 Zone (557.200.508)

681ap/08

Incorporating as modular units:

- DCM864R Operator Control / Display Module*
- CPU800 Main CPU module*
- FIM802 Field Interface Module*
- PMM800 Power Supply Monitor*
- BAQ140T24 Power Supply*

and as optional modular units:

- I0B800 Input/Output Expansion Board*
- PMM840 Power Supply Monitor*
- XLM800 Loop Expander Board*

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*
- 7.10.1 Outputs to fire protection equipment (Type A)*
- 7.10.2 Outputs to fire protection equipment (Type B)*
- 7.10.3 Outputs to fire protection equipment (Type C)*
- 7.10.4 Fault monitoring of fire protection equipment*
- 7.11 Delays to outputs*
- 7.12.1 Dependencies on more than one alarm signal (Type A dependency)*
- 7.12.2 Dependencies on more than one alarm signal (Type B dependency)*
- 7.12.3 Dependencies on more than one alarm signal (Type C dependency)*
- 7.13 Alarm counter*
- 8.3 Fault signals from points*
- 8.9 Output to fault warning routing equipment*
- 9.5 Disablement of addressable points*
- 10 Test condition*
- 11 Standardized input/output interface*

MZX-254

Analogue Addressable Control and Indicating Equipment, 2-4 loop, 240 Zone (557.200.509)

681ap/09

Incorporating as modular units:

- DCM832 Operator Control / Display Module*
- CPU800 Main CPU module*
- FIM802 Field Interface Module*
- PMM800 Power Supply Monitor*
- BAQ140T24 Power Supply*

and as optional modular units:

- I0B800 Input/Output Expansion Board*
- PMM840 Power Supply Monitor*
- XLM800 Loop Expander Board*

Certified with the following options with requirements from EN 54-2:

- 7.8 Output to fire alarm devices*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*

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7.10.1 7.10.2 7.10.3 7.10.4 7.11 7.12.1 7.12.2 7.12.3 7.13 8.3 8.9 9.5 10 11	<i>Outputs to fire protection equipment (Type A)</i> <i>Outputs to fire protection equipment (Type B)</i> <i>Outputs to fire protection equipment (Type C)</i> <i>Fault monitoring of fire protection equipment</i> <i>Delays to outputs</i> <i>Dependencies on more than one alarm signal (Type A dependency)</i> <i>Dependencies on more than one alarm signal (Type B dependency)</i> <i>Dependencies on more than one alarm signal (Type C dependency)</i> <i>Alarm counter</i> <i>Fault signals from points</i> <i>Output to fault warning routing equipment</i> <i>Disablement of addressable points</i> <i>Test condition</i> <i>Standardized input/output interface</i>	MZX-254-S	Analogue Addressable Control and Indicating Equipment, 2-4 loop, 240 Zone (557.200.511) Incorporating as modular units: DCM832 -S <i>Operator Control / Display Module (Scandinavian Fire Brigade Interface/key)</i> CPU800 <i>Main CPU module</i> FIM802 <i>Field Interface Module</i> PMM800 <i>Power Supply Monitor</i> BAQ140T24 <i>Power Supply</i> and as optional modular units: IOB800 <i>Input/Output Expansion Board</i> PMM840 <i>Power Supply Monitor</i> XLM800 <i>Loop Expander Board</i> Certified with the following options with requirements from EN 54-2: 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.9.2 <i>Alarm confirmation input from fire alarm routing equipment</i> 7.10.1 <i>Outputs to fire protection equipment (Type A)</i> 7.10.2 <i>Outputs to fire protection equipment (Type B)</i> 7.10.3 <i>Outputs to fire protection equipment (Type C)</i> 7.10.4 <i>Fault monitoring of fire protection equipment</i> 7.11 <i>Delays to outputs</i> 7.12.1 <i>Dependencies on more than one alarm signal (Type A dependency)</i> 7.12.2 <i>Dependencies on more than one alarm signal (Type B dependency)</i> 7.12.3 <i>Dependencies on more than one alarm signal (Type C dependency)</i> 7.13 <i>Alarm counter</i> 8.3 <i>Fault signals from points</i> 8.9 <i>Output to fault warning routing equipment</i> 9.5 <i>Disablement of addressable points</i> 10 <i>Test condition</i> 11 <i>Standardized input/output interface</i>	681ap/10
MZX-254-CH	Analogue Addressable Control and Indicating Equipment, 2-4 loop, 240 Zone (557.200.510) Incorporating as modular units: DCM832 <i>Operator Control / Display Module</i> CPU800 <i>Main CPU module</i> FIM802 <i>Field Interface Module</i> PMM800 <i>Power Supply Monitor</i> BF-CH <i>Swiss Fire Brigade Interface</i> BAQ140T24 <i>Power Supply</i> and as optional modular units: IOB800 <i>Input/Output Expansion Board</i> PMM840 <i>Power Supply Monitor</i> XLM800 <i>Loop Expander Board</i> Certified with the following options with requirements from EN 54-2: 7.8 <i>Output to fire alarm devices</i> 7.9.1 <i>Output to fire alarm routing equipment</i> 7.9.2 <i>Alarm confirmation input from fire alarm routing equipment</i> 7.10.1 <i>Outputs to fire protection equipment (Type A)</i> 7.10.2 <i>Outputs to fire protection equipment (Type B)</i> 7.10.3 <i>Outputs to fire protection equipment (Type C)</i> 7.10.4 <i>Fault monitoring of fire protection equipment</i> 7.11 <i>Delays to outputs</i> 7.12.1 <i>Dependencies on more than one alarm signal (Type A dependency)</i>	681ap/11		

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Certificated Products		LPCB Ref. No.
	7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disablement of addressable points 10 Test condition 11 Standardized input/output interface	
MZX-16-R	16 Zone Repeater Panel, (557.200.520) Approved for use with the MZX-125 Control and Indicating Equipment Incorporating as modular units: DCM816 Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply	681ap/R01
MZX-32-R	32 Zone Repeater Panel, (557.200.521) Approved for use with the MZX-125, MZX-250-CH, MZX-251, MZX-252 & MZX-252-CH Control and Indicating Equipment Incorporating as modular units: DCM832 Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply	681ap/R02
MZX-32-SR	32 Zone Repeater Panel, (557.200.522) Approved for use with the MZX-251-S Control and Indicating Equipment Incorporating as modular units: DCM832-S Operator Control / Display Module PMM800 Power Supply Monitor BAQ60T24 Power Supply	681ap/R03
MZX-64-DR	64 Zone Repeater Panel, (557.200.526) Approved for use with the MZX-253 Control and Indicating Equipment Incorporating as modular units: DCM864R Operator Control / Display Module PMM805 Power Supply Monitor (24 VDC)	681ap/R04
MZX-DR	240 Zone Repeater Panel, (557.200.523) Approved for use with the MZX-254 Control and Indicating Equipment Incorporating as modular units: DCM832 Operator Control / Display Module PMM805 Power Supply Monitor (24 VDC)	681ap/R05
MZX-SDR	240 Zone Repeater Panel, (557.200.524) Approved for use with the MZX254-S Control and Indicating Equipment Incorporating as modular units: DCM832 -S Operator Control / Display Module (Scandinavian Fire Brigade Interface/key) PMM805 Power Supply Monitor (24 VDC)	681ap/R06
MZX-CHDR	240 Zone Repeater Panel, (557.200.525) Approved for use with the MZX-254-CH Control and Indicating Equipment Incorporating as modular units: DCM832 Operator Control / Display Module FBF-CH Swiss Fire Brigade Interface PMM805 Power Supply Monitor (24 VDC)	681ap/R07
FC702S	1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing (557.200.949) Incorporating the following units: FC1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSU (BAQ140T24) Power Supply Unit Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PCS800 Profile Ethernet switch FB800 Fuse Board TUD800 Triggering Board for transmission unit IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12170 2x17Ah Batteries Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A	681au/01

Certificated Products

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7.10.2 Output type B
7.10.3 Output type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition
11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro215S

1-2 Loops Analogue Addressable Control & Indicating Equipment, Shallow Housing

681au/01

Incorporating the following units:

PR1DS Profile User Interface
PFI800 Profile Panel Field Interface Board
PSU (BAQ140T24) Power Supply Unit

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface
PNI800 Profile Network Interface Slot Card
FOM800 Fibre Optic Module
PCS800 Profile Ethernet switch
FB800 Fuse Board
TUD800 Triggering Board for transmission unit
IOB800 Input/ Output Expansion Board
FBI800 Fire Brigade Interface
PS-12170 2x17Ah Batteries

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Output type A
7.10.2 Output type B
7.10.3 Output type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition
11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

FC702D

1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing
(557.200.950)

681au/02

Incorporating the following units:

FC1DS Profile User Interface
PFI800 Profile Panel Field Interface Board
PSC400 Profile Backplane 4 Slots
PSU (BAQ140T24) Power Supply Unit

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface
PNI800 Profile Network Interface Slot Card
FOM800 Fibre Optic Module
PCS800 Profile Ethernet switch
POS800-S Fibre Optic Switch Single Mode

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Certificated Products

**LPCB Ref.
No.**

POS800-M Fibre Optic Switch Multi Mode
FB800 Fuse Board
CD5.241 DC-DC Converter (24V input and 24V output)
TUD800 Triggering Board for transmission unit
SM3 Serial Interface to FAT
IOB800 Input/ Output Expansion Board
FBI800 Fire Brigade Interface
PS-12380 2x38Ah Batteries

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Output type A
7.10.2 Output type B
7.10.3 Output type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition
11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

Pro215D

1-2 Loops Analogue Addressable Control & Indicating Equipment, Deep Housing

681au/02

Incorporating the following units:

PR1DS Profile User Interface
PFI800 Profile Panel Field Interface Board
PSC400 Profile Backplane 4 Slots
PSU (BAQ140T24) Power Supply Unit

Incorporating the following optional units:

ProR1DS Profile Reduced User Interface
PNI800 Profile Network Interface Slot Card
FOM800 Fibre Optic Module
PCS800 Profile Ethernet switch
POS800-S Fibre Optic Switch Single Mode
POS800-M Fibre Optic Switch Multi Mode
FB800 Fuse Board
CD5.241 DC-DC Converter (24V input and 24V output)
TUD800 Triggering Board for transmission unit
SM3 Serial Interface to FAT
IOB800 Input/ Output Expansion Board
FBI800 Fire Brigade Interface
PS-12380 2x38Ah Batteries

Certified with the following options with requirements from EN54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Output type A
7.10.2 Output type B
7.10.3 Output type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delays to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B
7.12.3 Dependencies on more than one alarm signal - Type C
7.13 Alarm counter
8.3 Fault signals from points
8.9 Output to fault warning routing equipment
9.5 Disabling of each address point
10 Test condition
11 Output to standardised input/output interface

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

FC718D	<p><i>Notes:</i></p> <p>1. <i>Scope of approval does not include the operation of the network functionality</i></p> <p>2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</i></p> <p>4-8 Loops Analogue Addressable Control & Indicating Equipment (557.200.952)</p> <p>Incorporating the following units:</p> <p>FC1DS Profile User Interface</p> <p>PFI800 Profile Panel Field Interface Board</p> <p>PSC400 Profile Backplane 4 Slots</p> <p>PSU (BAQ140T24) Power Supply Unit</p> <p><i>Incorporating the following optional units:</i></p> <p>ProR1DS Profile Reduced User Interface</p> <p>PNI800 Profile Network Interface Slot Card</p> <p>FOM800 Fibre Optic Module</p> <p>PLX800 Profile Loop Expansion Slot Card</p> <p>PCS800 Profile Ethernet switch</p> <p>POS800-S Fibre Optic Switch Single Mode</p> <p>POS800-M Fibre Optic Switch Multi Mode</p> <p>FB800 Fuse Board</p> <p>CD5.241 DC-DC Converter (24V input and 24V output)</p> <p>TUD800 Triggering Board for transmission unit</p> <p>SM3 Serial Interface to FAT</p> <p>IOB800 Input/ Output Expansion Board</p> <p>FBI800 Fire Brigade Interface</p> <p>PS-12380 2x38Ah Batteries</p> <p><i>Certified with the following options with requirements from EN54-2:</i></p> <p>7.8 Output to fire alarm device(s)</p> <p>7.9.1 Output to fire alarm routing equipment</p> <p>7.9.2 Alarm confirmation input from fire alarm routing equipment</p> <p>7.10.1 Output type A</p> <p>7.10.2 Output type B</p> <p>7.10.3 Output type C</p> <p>7.10.4 Fault monitoring of fire protection equipment</p> <p>7.11 Delays to outputs</p> <p>7.12.1 Dependencies on more than one alarm signal - Type A</p> <p>7.12.2 Dependencies on more than one alarm signal - Type B</p> <p>7.12.3 Dependencies on more than one alarm signal - Type C</p> <p>7.13 Alarm counter</p> <p>8.3 Fault signals from points</p> <p>8.9 Output to fault warning routing equipment</p> <p>9.5 Disabling of each address point</p> <p>10 Test condition</p> <p>11 Output to standardised input/output interface</p> <p><i>Notes:</i></p> <p>1. <i>Scope of approval does not include the operation of the network functionality</i></p> <p>2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</i></p> <p>4-8 Loops Analogue Addressable Control & Indicating Equipment</p> <p>Incorporating the following units:</p> <p>PR1DS Profile User Interface</p> <p>PFI800 Profile Panel Field Interface Board</p> <p>PSC400 Profile Backplane 4 Slots</p> <p>PSU (BAQ140T24) Power Supply Unit</p> <p><i>Incorporating the following optional units:</i></p> <p>ProR1DS Profile Reduced User Interface</p> <p>PNI800 Profile Network Interface Slot Card</p> <p>FOM800 Fibre Optic Module</p> <p>PLX800 Profile Loop Expansion Slot Card</p> <p>PCS800 Profile Ethernet switch</p> <p>POS800-S Fibre Optic Switch Single Mode</p> <p>POS800-M Fibre Optic Switch Multi Mode</p> <p>FB800 Fuse Board</p> <p>CD5.241 DC-DC Converter (24V input and 24V output)</p> <p>TUD800 Triggering Board for transmission unit</p> <p>SM3 Serial Interface to FAT</p> <p>IOB800 Input/ Output Expansion Board</p> <p>FBI800 Fire Brigade Interface</p>	681au/04
Pro815D	<p><i>Notes:</i></p> <p>1. <i>Scope of approval does not include the operation of the network functionality</i></p> <p>2. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</i></p> <p>4-8 Loops Analogue Addressable Control & Indicating Equipment</p> <p>Incorporating the following units:</p> <p>PR1DS Profile User Interface</p> <p>PFI800 Profile Panel Field Interface Board</p> <p>PSC400 Profile Backplane 4 Slots</p> <p>PSU (BAQ140T24) Power Supply Unit</p> <p><i>Incorporating the following optional units:</i></p> <p>ProR1DS Profile Reduced User Interface</p> <p>PNI800 Profile Network Interface Slot Card</p> <p>FOM800 Fibre Optic Module</p> <p>PLX800 Profile Loop Expansion Slot Card</p> <p>PCS800 Profile Ethernet switch</p> <p>POS800-S Fibre Optic Switch Single Mode</p> <p>POS800-M Fibre Optic Switch Multi Mode</p> <p>FB800 Fuse Board</p> <p>CD5.241 DC-DC Converter (24V input and 24V output)</p> <p>TUD800 Triggering Board for transmission unit</p> <p>SM3 Serial Interface to FAT</p> <p>IOB800 Input/ Output Expansion Board</p> <p>FBI800 Fire Brigade Interface</p>	681au/04

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PS-12380 2x38Ah Batteries

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*
- 7.10.1 Output type A*
- 7.10.2 Output type B*
- 7.10.3 Output type C*
- 7.10.4 Fault monitoring of fire protection equipment*
- 7.11 Delays to outputs*
- 7.12.1 Dependencies on more than one alarm signal - Type A*
- 7.12.2 Dependencies on more than one alarm signal - Type B*
- 7.12.3 Dependencies on more than one alarm signal - Type C*
- 7.13 Alarm counter*
- 8.3 Fault signals from points*
- 8.9 Output to fault warning routing equipment*
- 9.5 Disabling of each address point*
- 10 Test condition*
- 11 Output to standardised input/output interface*

Notes:

- 1. Scope of approval does not include the operation of the network functionality*
- 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13*

FC708D

4-8 Loops Analogue Addressable Control & Indicating Equipment (557.200.951)

681au/05

Incorporating the following units:

- FC1DS Profile User Interface*
- PFI800 Profile Panel Field Interface Board*
- PSC400 Profile Backplane 4 Slots*
- PZ8x 80way Zonal Display*
- PSU (BAQ140T24) Power Supply Unit*

Incorporating the following optional units:

- ProR1DS Profile Reduced User Interface*
- PNI800 Profile Network Interface Slot Card*
- FOM800 Fibre Optic Module*
- PLX800 Profile Loop Expansion Slot Card*
- PCS800 Profile Ethernet switch*
- POS800-S Fibre Optic Switch Single Mode*
- POS800-M Fibre Optic Switch Multi Mode*
- FB800 Fuse Board*
- CD5.241 DC-DC Converter (24V input and 24V output)*
- TUD800 Triggering Board for transmission unit*
- SM3 Serial Interface to FAT*
- IOB800 Input/ Output Expansion Board*
- PZ4x 40way Zonal Display*
- FBI800 Fire Brigade Interface*
- PS-12380 2x38Ah Batteries*

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)*
- 7.9.1 Output to fire alarm routing equipment*
- 7.9.2 Alarm confirmation input from fire alarm routing equipment*
- 7.10.1 Output type A*
- 7.10.2 Output type B*
- 7.10.3 Output type C*
- 7.10.4 Fault monitoring of fire protection equipment*
- 7.11 Delays to outputs*
- 7.12.1 Dependencies on more than one alarm signal - Type A*
- 7.12.2 Dependencies on more than one alarm signal - Type B*
- 7.12.3 Dependencies on more than one alarm signal - Type C*
- 7.13 Alarm counter*
- 8.3 Fault signals from points*
- 8.9 Output to fault warning routing equipment*
- 9.5 Disabling of each address point*
- 10 Test condition*
- 11 Output to standardised input/output interface*

Notes:

- 1. Scope of approval does not include the operation of the network functionality*
- 2. This product approval does not constitute compliance with the fire detection and alarm*

Certificated Products

**LPCB Ref.
No.**

Pro885D	<p>systems requirements of EN54-13 4-8 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots PZ8x 80way Zonal Display PSU (BAQ140T24) Power Supply Unit</p> <p>Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board PZ4x 40way Zonal Display FBI800 Fire Brigade Interface PS-12380 2x38Ah Batteries</p> <p>Certified with the following options with requirements from EN54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output type A 7.10.2 Output type B 7.10.3 Output type C 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal - Type A 7.12.2 Dependencies on more than one alarm signal - Type B 7.12.3 Dependencies on more than one alarm signal - Type C 7.13 Alarm counter 8.3 Fault signals from points 8.9 Output to fault warning routing equipment 9.5 Disabling of each address point 10 Test condition 11 Output to standardised input/output interface</p> <p>Notes: 1. Scope of approval does not include the operation of the network functionality 2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13</p>	681au/05
Pro815D-CH	<p>4-8 Loops Analogue Addressable Control & Indicating Equipment Incorporating the following units: PR1DS Profile User Interface PFI800 Profile Panel Field Interface Board PSC400 Profile Backplane 4 Slots SFK800 Swiss Fire Brigade Interface PSU (BAQ140T24) Power Supply Unit</p> <p>Incorporating the following optional units: ProR1DS Profile Reduced User Interface PNI800 Profile Network Interface Slot Card FOM800 Fibre Optic Module PLX800 Profile Loop Expansion Slot Card PCS800 Profile Ethernet switch POS800-S Fibre Optic Switch Single Mode POS800-M Fibre Optic Switch Multi Mode FB800 Fuse Board CD5.241 DC-DC Converter (24V input and 24V output) TUD800 Triggering Board for transmission unit SM3 Serial Interface to FAT IOB800 Input/ Output Expansion Board FBI800 Fire Brigade Interface PS-12260 2x26Ah Batteries</p>	681au/06

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm device(s)
- 7.9.1 Output to fire alarm routing equipment
- 7.9.2 Alarm confirmation input from fire alarm routing equipment
- 7.10.1 Output type A
- 7.10.2 Output type B
- 7.10.3 Output type C
- 7.10.4 Fault monitoring of fire protection equipment
- 7.11 Delays to outputs
- 7.12.1 Dependencies on more than one alarm signal - Type A
- 7.12.2 Dependencies on more than one alarm signal - Type B
- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disablement of each address point
- 10 Test condition
- 11 Output to standardised input/output interface

Notes:

1. Scope of approval does not include the operation of the network functionality
2. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13

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Certificate No: 1199c-cl-1) to EN 54-2: 1998 CIE and EN 54-4: 1998 Power Supply

N.B This certificate is to a withdrawn standard. Control and indicating equipment conforming to this standard is not suitable for use within the jurisdiction of the European Union (EU). This certificate, to the withdrawn standard, is maintained because control and indicating equipment meeting the withdrawn standard is still requested by some regulators outside of the EU.

Certificate No: 1199c to EN 54-2: 1998 CIE and EN 54-4: 1998 Power Supply

N.B This certificate is to a withdrawn standard. Control and indicating equipment conforming to this standard is not suitable for use within the jurisdiction of the European Union (EU). This certificate, to the withdrawn standard, is maintained because control and indicating equipment meeting the withdrawn standard is still requested by some regulators outside of the EU.

Certificated Products

LPCB Ref.
No.

ZP3

1, 2 and 4 loop analogue addressable control and indicating equipment

1199c/01

Incorporating as modular units:

ZP3-MB2-4L	4 Loop Main board
ZP3-MB2-2L	2 Loop Main board
ZP3-MB2-1L	1 Loop Main board
ZP3-CPU1	CPU board
ZP3-DB1	Display board
ZP3-ZB50	50 Zone LED board
ZP3-CB1	Commissioning key switch board
ZP3-PR1	Printer Kit
ZP3AB-SCB-D	Control bus driver
ZP3AB-RL8	Programmable relay output board, 8 way
ZP3-AB-MA8	Programmable monitored output board, 8 way
ZP3AB-OP24	Programmable transistor output board, 24 way
ZP3AB-MIP8	Programmable input board, 8 way
ZP3-XI 230Vac	Power supply unit

Approved with the following options from BS EN54 Part 2:

Certificated Products

LPCB Ref.
No.

- 7.8 Output to fire alarm devices
- 7.9 Output to fire alarm routing equipment
- 7.10 Output to fire protection equipment
- 7.11 Delays to outputs
- 7.12 Co-incident detection
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.4 Total loss of power
- 8.9 Output to fault routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition
- 11 Standardised input/output interface

ZPU (Traditional Chinese
Language Variant)

1, 2 and 4 loop analogue addressable control and indicating equipment

1199c/01

Incorporating as modular units:

- ZP3-MB2-4L 4 Loop Main board
- ZP3-MB2-2L 2 Loop Main board
- ZP3-MB2-1L 1 Loop Main board
- ZP3-CPU1 CPU board
- ZP3-DB1 Display board
- ZP3-ZB50 50 Zone LED board
- ZP3-CB1 Commissioning key switch board
- ZP3-PR1 Printer Kit
- ZP3AB-SCB-D Control bus driver
- ZP3AB-RL8 Programmable relay output board, 8 way
- ZP3AB-MA8 Programmable monitored output board, 8 way
- ZP3AB-OP24 Programmable transistor output board, 24 way
- ZP3AB-MIP8 Programmable input board, 8 way
- ZP3-XI 230Vac Power supply unit

Approved with the following options from BS EN54 Part 2:

- 7.8 Output to fire alarm devices
- 7.9 Output to fire alarm routing equipment
- 7.10 Output to fire protection equipment
- 7.11 Delays to outputs
- 7.12 Co-incident detection
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.4 Total loss of power
- 8.9 Output to fault routing equipment
- 9.5 Disablement of addressable points
- 10 Test condition
- 11 Standardised input/output interface

Certificate No: 1199a-(cl-1) to EN 54-2:1997 + A1:2006 , EN 54-4:1997+ A1:2002 +A2:2006 and EN 54-21:2006

Certificate No: 1199b-(cl-1) to EN 54-2:1997+A1:2006, EN 54-4:1997+A1:2006 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

2X-F1, 2X-F1-S

2X-F1 Intelligent analogue addressable fire panel with user interface- 1 Loop
2X-F1-S Intelligent analogue addressable fire panel with user interface -
1 Loop small cabinet

1199a/05

Incorporating the following units:

- 2010-2F1-MB Main control board
- 2X-UI User interface control board
- 2010-2-PS-40 4A Power Supply

And as optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

2X-ZI-40	(40 Zone) (Large cabinet variant only)
2X-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
2X-LB Loop Board	(Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with ATS7310 (GSM module)
2X-D-TP	Translucent door option for large cabinet*
2X-D-TP-S	Translucent door option for small cabinet*
2010-FS-EOL	Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on 2X-F1 and 2X-F1-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on 2X-F1 and 2X-F1-S)
7.10	Output to fire protection equipment - Type A,B and C (not available on 2X-F1 and 2X-F1-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

1. Available with the following language kit options: -01 Dutch (NL) The Netherlands, -02 French (FR), -03 English (UK) United Kingdom and Ireland, -04 German (DE) -05 Norwegian, -06 Swedish, -07 Danish (DK), -08 English (AU) Australia, -09 Spanish, -10 Italian, -11 Dutch (BE) Belgium, -12 Irish, -13 German (AU) (Austria), -14 Greek, -15 Arabic, -17 English (US) United States of America, -18 Polish, -19 Turkish, -20 Czech Republic, -21 Portuguese, -22 Hungarian, -23 Danish (IC) Iceland, -24 Slovakian, -25 Russian, -27 Lithuanian, -28 Finnish, -29 German (SW) Switzerland, -30 Estonian, -31 Latvian, -32 French (BE) Belgium, -33 French (SW) Switzerland, -34 Italian (SW) Switzerland, -36 French (Int) International, -40 Bulgarian, -41 Belarusian, -43 Ukrainian, -44 Serbian, -45 Romanian (RO), -46 German (Int) International, -48 Croatian, -49 Macedonian, -50 Slovenian, -51 Hebrew, -71 Catalan, -80 Chinese, -99 English (Int) International English

2. Scope of the approval does not indicate the operation of the network functionality

*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

3. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

4. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)

KFP-AF1, KFP-AF1-S

Intelligent Analogue Addressable Fire Panel with user interface - 1 loop
Intelligent Analogue Addressable Fire Panel with user interface - 1 loop small cabinet

1199a/05

Incorporating the following units:

2010-2F1-MB	Main control board
KFP-A-UI	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)
KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

ZP2-F1-S, ZP2-F1	KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel with user interface - 1 loop Intelligent Analogue Addressable Fire Panel with user interface - 1 loop small cabinet	1199a/05
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Incorporating the following units:

2010-2F1-MB	Main control board
ZP2-UI	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

2X-F1-SC, 2X-F1-SC-S	ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-TP Translucent door option for large cabinet* ZP2-D-TP-S Translucent door option for small cabinet* Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop (Scandinavia) Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop small cabinet (Scandinavia)	1199a/06
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Incorporating the following units:

2010-2F1-MB	Main control board
2X-UI-SC	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

KFP-AF1-SC, KFP-AF1-SC-S	2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop (Scandinavia) Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop small cabinet (Scandinavia)	1199a/06
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PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

Incorporating the following units:

2010-2F1-MB Main control board
KFP-A-UI-SC User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)
KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)
2010-2-NB Network card
KFP-A-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-SK Scandinavian key and lock assembly
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT with ATS7310 (GSM module)
2010-FS-EOL Fault Supervision End of Line unit
ZP2-F1-SC, ZP2-F1-SC-S Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop (Scandinavia) 1199a/06
Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop small cabinet (Scandinavia)

Incorporating the following units:

2010-2F1-MB Main control board
ZP2-UI-SC User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)
ZP2-ZI-40 (40 Zone) (Large cabinet variant only)
2010-2-NB Network card
ZP2-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-SK Scandinavian key and lock assembly
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2010-FS-EOL Fault Supervision End of Line unit

2X-F1-FB2-S, 2X-F1-FB2 Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop 1199a/07
Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop small cabinet

Incorporating the following units:

2010-2F1-MB Main control board
2X-UI-FB2 User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)
2X-ZI-40 (40 Zone) (Large cabinet variant only)
2X-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
2X-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet

Certificated Products

LPCB Ref. No.

	2010-2-PIB	Peripheral Interface Board (Germany) (Large cabinet variant only)	
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	ADP-N3E-U	IFAM interface card (master) (Large cabinet variant only)	
	ADP-N3S	interface card (slave) (Large cabinet variant only)	
	2010-2-DACT	with ATS7310 (GSM module)	
	2X-D-FB2-TP	Translucent door option for large cabinet*	
	2X-D-FB2-TP-S	Translucent door option for small cabinet*	
	2010-FS-EOL	Fault Supervision End of Line unit	
KFP-AF1-FB2, KFP-AF1-FB2-S		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop	1199a/07
		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop small cabinet	

Incorporating the following units:

2010-2F1-MB	Main control board
KFP-A-UI-FB2	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

	KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)	
	KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)	
	KFP-A-ZI-24-S	(24 Zone) (Small cabinet variant only)	
	2010-2-NB	Network card	
	KFP-A-LB	Loop Board (Large cabinet variant only)	
	2010-2-232-KIT	Interface board for external printer	
	2010-2-PS-C2	UK mains cable for large cabinet	
	2010-2-PS-C2-S	UK mains cable for small cabinet	
	2010-2-PIB	Peripheral Interface Board (Germany) (Large cabinet variant only)	
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	ADP-N3E-U IFAM	interface card (master) (Large cabinet variant only)	
	ADP-N3S	interface card (slave) (Large cabinet variant only)	
	2010-2-DACT	with ATS7310 (GSM module)	
	2010-FS-EOL	Fault Supervision End of Line unit	
ZP2-F1-FB2, ZP2-F1-FB2-S		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop	1199a/07
		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 1 loop small cabinet	

Incorporating the following units:

2010-2F1-MB	Main control board
ZP2-UI-FB2	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

	ZP2-ZI-20	(20 Zone) (Large cabinet variant only)
	ZP2-ZI-40	(40 Zone) (Large cabinet variant only)
	ZP2-ZI-24-S	(24 Zone) (Small cabinet variant only)
	2010-2-NB	Network card
	ZP2-LB	Loop Board (Large cabinet variant only)
	2010-2-232-KIT	Interface board for external printer
	2010-2-PS-C2	UK mains cable for large cabinet
	2010-2-PS-C2-S	UK mains cable for small cabinet
	2010-2-PIB	Peripheral Interface Board (Germany) (Large cabinet variant only)
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

2X-E1, 2X-E1-S	<p>ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S interface card (slave) (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* ZP2-D-FB2-TP-S Translucent door option for small cabinet*</p> <p>Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 1 loop Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 1 loop small Cabinet</p> <p>Incorporating the following units:</p> <p>2010-2F1-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply</p> <p>And as optional modules:</p> <p>2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2X-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2X-D-E-TP Translucent door option for large cabinet* 2X-D-E-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit</p>	1199a/08
KFP-AE1, KFP-AE1-S	<p>Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 1 loop Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 1 loop small cabinet</p> <p>Incorporating the following units:</p> <p>2010-2F1-MB Main control board KFP-A-UI-E User interface control board 2010-2-PS-40 4A Power Supply</p> <p>And as optional modules:</p> <p>KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit</p> <p>The above fire panels are certified with the following options with requirements from EN 54-2:</p>	1199a/08

Certificated Products

**LPCB Ref.
No.**

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on KFP-A-F1 and KFP-A-F1-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on KFP-A-F1 and KFP-A-F1-S)
7.10	Output to fire protection equipment - Type A,B and C (not available on KFP-A-F1 and KFP-A-F1-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disabling of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

1. Available with the following language kit options: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English

ZP2-E1, ZP2-E1-S

2. Scope of the approval does not indicate the operation of the network functionality
Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 1 loop
Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 1 loop small cabinet

1199a/08

Incorporating the following units:

2010-2F1-MB	Main control board
ZP2-UI-E	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

ZP2-ZI-20	(20 Zone) (Large cabinet variant only)
ZP2-ZI-40	(40 Zone) (Large cabinet variant only)
ZP2-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
ZP2-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with ATS7310 (GSM module)
2010-FS-EOL	Fault Supervision End of Line unit
ZP2-D-E-TP	Translucent door option for large cabinet*
ZP2-D-E-TP-S	Translucent door option for small cabinet*

The above fire panels are certified with the following options with requirements from EN 54-2:

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7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on ZP2-F1 and ZP2-F1-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on ZP2-F1 and ZP2-F1-S)
7.10	Output to fire protection equipment - Type A,B and C (not available on ZP2-F1 and ZP2-F1-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disabling of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

1. Available with the following language kits:

-01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary
-23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English

2. Scope of the approval does not indicate the operation of the network functionality

*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

3. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

4. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)

2X-F1-SCFB-S, 2X-F1-SCFB

Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 1 loop (Scandinavia)

1199a/09

Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 1 loop small cabinet (Scandinavia)

Incorporating the following units:

2010-2F1-MB	Main control board
2X-UI-SCFB	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

2X-ZI-20	(20 Zone) (Large cabinet variant only)
2X-ZI-40	(40 Zone) (Large cabinet variant only)
2010-2-NB	Network card
2X-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-SK	Scandinavian key and lock assembly
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O variant only)	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

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2010-2-DACT with ATS7310 (GSM module)
2010-FS-EOL Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on 2X-F1 and 2X-F1-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on 2X-F1 and 2X-F1-S)
7.10	Output to fire protection equipment - Type A,B and C (notavailable on 2X-F1 and 2X-F1-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2. Available with the following language kit options: -01 Dutch (NL) The Netherlands, -02 French (FR), -03 English (UK) United Kingdom and Ireland, -04 German (DE) -05 Norwegian, -06 Swedish, -07 Danish (DK), -08 English (AU) Australia, -09 Spanish, -10 Italian, -11 Dutch (BE) Belgium, -12 Irish, -13 German (AU) (Austria), -14 Greek, -15 Arabic, -17 English (US) United States of America, -18 Polish, -19 Turkish, -20 Czech Republic, -21 Portuguese, -22 Hungarian, -23 Danish (IC) Iceland, -24 Slovakian, -25 Russian, -27 Lithuanian, -28 Finnish, -29 German (SW) Switzerland, -30 Estonian, -31 Latvian, -32 French (BE) Belgium, -33 French (SW) Switzerland, -34 Italian (SW) Switzerland, -36 French (Int) International, -40 Bulgarian, -41 Belarusian, -43 Ukrainian, -44 Serbian, -45 Romanian (RO), -46 German (Int) International, -48 Croatian, -49 Macedonian, -50 Slovenian, -51 Hebrew, -71 Catalan, -80 Chinese, -99 English (Int) International English

2. Scope of the approval does not indicate the operation of the network functionality
*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

3. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

4. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)

KFP-AF1-SCFB, KFP-AF1-SCFB-S	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 1 loop (Scandinavia) Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 2 loop with printer	1199a/09
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Incorporating the following units:

2010-2F1-MB	Main control board
KFP-A-UI-SCFB	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)
KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)
2010-2-NB	Network card
KFP-A-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-SK	Scandinavian key and lock assembly
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant)

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	only)	
	2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT with AT57310 (GSM module)	
	2010-FS-EOL Fault Supervision End of Line unit	
ZP2-F1-SCFB, ZP2-F1-SCFB-S	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 1 loop (Scandinavia)	1199a/09
	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 1 loop small cabinet (Scandinavia)	
	Incorporating the following units:	
	2010-2F1-MB Main control board	
	ZP2-UI-SCFB User interface control board	
	2010-2-PS-40 4A Power Supply	
	And as optional modules:	
	ZP2-ZI-20 (20 Zone) (Large cabinet variant only)	
	ZP2-ZI-40 (40 Zone) (Large cabinet variant only)	
	2010-2-NB Network card	
	ZP2-LB Loop Board (Large cabinet variant only)	
	2010-2-232-KIT Interface board for external printer	
	2010-SK Scandinavian key and lock assembly	
	2010-2-PS-C2 UK mains cable for large cabinet	
	2010-2-PS-C2-S UK mains cable for small cabinet	
	2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT with AT57310 (GSM module)	
	2010-FS-EOL Fault Supervision End of Line unit	
2X-F2, 2X-F2-PRT, 2X-F2-S	Intelligent Analogue Addressable Fire Panel with user interface - 2 loop	1199a/10
	Intelligent Analogue Addressable Fire Panel with user interface - 2 loop with printer	
	Intelligent Analogue Addressable Fire Panel with user interface - 2 loop small cabinet	
	Incorporating the following units:	
	2010-2F2-MB Main control board	
	2X-UI User interface control board	
	2010-2-PS-40 4A Power Supply	
	And as optional modules:	
	2X-ZI-20 (20 Zone) (Large cabinet variant only)	
	2X-ZI-40 (40 Zone) (Large cabinet variant only)	
	2X-ZI-24-S (24 Zone) (Small cabinet variant only)	
	2010-2-NB Network card	
	2X-LB Loop Board (Large cabinet variant only)	
	2010-2-232-KIT Interface board for external printer	
	2010-2-PS-C2 UK mains cable for large cabinet	
	2010-2-PS-C2-S UK mains cable for small cabinet	
	2010-2-PRT Door mounted printer module (2X-F2-PRT variant only)	
	2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT with AT57310 (GSM module)	
	2X-D-TP Translucent door option for large cabinet* (2X-F2 variant only)	
	2X-D-TP-S Translucent door option for small cabinet* (2X-F2-S variant only)	
	2010-FS-EOL Fault Supervision End of Line unit	
KFP-AF2,KFP-AF2-PRT, KFP-AF2-S	Intelligent Analogue Addressable Fire Panel with user interface - 2 loop	1199a/10
	Intelligent Analogue Addressable Fire Panel with user interface - 2 loop with printer	
	Intelligent Analogue Addressable Fire Panel with user interface - 2 loop small cabinet	
	Incorporating the following units:	

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2010-2F2-MB Main control board
KFP-A-UI User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)
KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)
KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
KFP-A-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PRT Door mounted printer module (KFP-A-F2-PRT variant only)
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2010-FS-EOL Fault Supervision End of Line unit

ZP2-F2, ZP2-F2-PRT,
ZP2-F2-S

Intelligent Analogue Addressable Fire Panel with user interface - 2 loop
Intelligent Analogue Addressable Fire Panel with user interface - 2 loop with printer
Intelligent Analogue Addressable Fire Panel with user interface - 2 loop small cabinet

1199a/10

Incorporating the following units:

2010-2F2-MB Main control board
ZP2-UI User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)
ZP2-ZI-40 (40 Zone) (Large cabinet variant only)
ZP2-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
ZP2-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PRT Door mounted printer module (ZP2-F2-PRT variant only)
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2010-FS-EOL Fault Supervision End of Line unit
ZP2-D-TP Translucent door option for large cabinet* (ZP2-F2 variant only)
ZP2-D-TP-S Translucent door option for small cabinet* (ZP2-F2-S variant only)

2X-F2-SC, 2X-F2-SC-S

Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls
2 loop (Scandinavia)
Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls
2 loop small cabinet (Scandinavia)

1199a/11

Incorporating the following units:

2010-2F2-MB Main control board
2X-UI-SC User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)
2X-ZI-40 (40 Zone) (Large cabinet variant only)
2010-2-NB Network card
2X-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer

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	2010-SK	Scandinavian key and lock assembly	
	2010-2-PS-C2	UK mains cable for large cabinet	
	2010-2-PS-C2-S	UK mains cable for small cabinet	
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT	with ATS7310 (GSM module)	
	2010-FS-EOL	Fault Supervision End of Line unit	
KFP-AF2-SC, KFP-AF2-SC-S		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls 2 loop (Scandinavia)	1199a/11
		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls 2 loop small cabinet (Scandinavia)	

Incorporating the following units:

2010-2F2-MB	Main control board
KFP-A-UI-SC	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

	KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)	
	KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)	
	2010-2-NB	Network card	
	KFP-A-LB	Loop Board (Large cabinet variant only)	
	2010-2-232-KIT	Interface board for external printer	
	2010-SK	Scandinavian key and lock assembly	
	2010-2-PS-C2	UK mains cable for large cabinet	
	2010-2-PS-C2-S	UK mains cable for small cabinet	
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT	with ATS7310 (GSM module)	
	2010-FS-EOL	Fault Supervision End of Line unit	
ZP2-F2-SC, ZP2-F2-SC-S		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls 2 loop (Scandinavia)	1199a/11
		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls 2 loop small cabinet (Scandinavia)	

Incorporating the following units:

2010-2F2-MB	Main control board
ZP2-UI-SC	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

	ZP2-ZI-20	(20 Zone) (Large cabinet variant only)	
	ZP2-ZI-40	(40 Zone) (Large cabinet variant only)	
	2010-2-NB	Network card	
	ZP2-LB	Loop Board (Large cabinet variant only)	
	2010-2-232-KIT	Interface board for external printer	
	2010-SK	Scandinavian key and lock assembly	
	2010-2-PS-C2	UK mains cable for large cabinet	
	2010-2-PS-C2-S	UK mains cable for small cabinet	
	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	
	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	
	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
	2010-2-DACT	with ATS7310 (GSM module)	
	2010-FS-EOL	Fault Supervision End of Line unit	
2X-F2-FB2-PRT, 2X-F2-FB2, 2X-F2-FB2-S		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 2 loop	1199a/12
		Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls	

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- 2 loop with printer
Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls
- 2 loop small cabinet

Incorporating the following units:

2010-2F2-MB Main control board
2X-UI-FB2 User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)
2X-ZI-40 (40 Zone) (Large cabinet variant only)
2X-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
2X-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PRT Door mounted printer module (2X-F2-FB2-PRT variant only)
2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only)
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
ADP-N3E-U (Large cabinet variant only)
ADP-N3S (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2X-D-FB2-TP Translucent door option for large cabinet* (2X-F2-FB2 variant only)
2X-D-FB2-TP-S Translucent door option for large cabinet* (2X-F2-FB2-S variant only)
2010-FS-EOL Fault Supervision End of Line unit

KFP-A-F2FB2-PRT KFP-
AF2-FB2-S KFP-AF2-FB2

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Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls
- 2 loop
Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls
- 2 loop with printer
Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls
- 2 loop small cabinet

Incorporating the following units:

2010-2F2-MB Main control board
KFP-A-UI-FB2 User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)
KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)
KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
KFP-A-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PRT Door mounted printer module (KFP-A-F2-FB2-PRT variant only)
2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only)
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
ADP-N3E-U (Large cabinet variant only)
ADP-N3S (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)

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ZP2-F2-FB2, ZP2-F2-FB2 PRT, ZP2F2-FB2-S	2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 2 loop Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 2 loop with printer Intelligent Analogue Addressable Fire Panel with user interface with fire brigade controls - 2 loop small cabinet Incorporating the following units: 2010-2F2-MB Main control board ZP2-UI-FB2 User interface control board 2010-2-PS-40 4A Power Supply And as optional modules: ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PRT Door mounted printer module (ZP2-F2-FB2-PRT variant only) 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U (Large cabinet variant only) ADP-N3S (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* (ZP2-F2-FB2 variant only) ZP2-D-FB2-TP-S Translucent door option for large cabinet* (ZP2-F2-FB2-S variant only)	1199a/12
2X-F2-SCFB, 2X-F2-SCFB-S	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 2 loop (Scandinavia) Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls 2 loop small cabinet (Scandinavia) Incorporating the following units: 2010-2F2-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply And as optional modules: 2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit	1199a/13
KFP-AF2-SCFB-S, KFP-AF2-SCFB	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 2 loop (Scandinavia) Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 2 loop small cabinet (Scandinavia)	1199a/13

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Incorporating the following units:

2010-2F2-MB	Main control board
KFP-A-UI-SCFB	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)
KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)
2010-2-NB	Network card
KFP-A-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-SK	Scandinavian key and lock assembly
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PRT	Door mounted printer module (KFP-A-F2-SCFB-PRT variant only)

2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
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2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
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2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
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2010-2-DACT	with ATS7310 (GSM module)
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2010-FS-EOL	Fault Supervision End of Line unit
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ZP2-F2-SCFB-S,ZP2-F2-SCFB-PRT,ZP2-F2-SCFB	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 2 loop (Scandinavia)	1199a/13
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	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 2 loop with printer (Scandinavia)
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	Intelligent Analogue Addressable Fire Panel with user interface with SS3654 fire brigade controls - 2 loop small cabinet (Scandinavia)
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Incorporating the following units:

2010-2F2-MB	Main control board
ZP2-UI-SCFB	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

ZP2-ZI-20	(20 Zone) (Large cabinet variant only)
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ZP2-ZI-40	(40 Zone) (Large cabinet variant only)
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2010-2-NB	Network card
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ZP2-LB	Loop Board (Large cabinet variant only)
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2010-2-232-KIT	Interface board for external printer
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2010-SK	Scandinavian key and lock assembly
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2010-2-PS-C2	UK mains cable for large cabinet
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2010-2-PS-C2-S	UK mains cable for small cabinet
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2010-2-PRT	Door mounted printer module (ZP2-F2-SCFB-PRT variant only)
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2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
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2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
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2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
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2010-2-DACT	with ATS7310 (GSM module)
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2010-FS-EOL	Fault Supervision End of Line unit
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2X-E2, 2X-E2-S	Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 2 loop	1199a/14
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	Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls 2 loop small cabinet
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Incorporating the following units:

2010-2F2-MB	Main control board
2X-UI-E	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

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2X-ZI-20	(20 Zone) (Large cabinet variant only)
2X-ZI-40	(40 Zone) (Large cabinet variant only)
2X-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
2X-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O only)	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O cabinet variant only)	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with AT57310 (GSM module)
2X-D-E-TP	Translucent door option for large cabinet*
2X-D-E-TP-S	Translucent door option for large cabinet*
2010-FS-EOL	Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on 2X-F2, 2X-F2-PRT and 2X-F2-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on 2X-F2, 2X-F2-PRT and 2X-F2-S)
7.10	Output to fire protection equipment - Type A,B and C (not available on 2X-F2, 2X-F2-PRT and 2X-F2-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13

1. Available with the following language kit options: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

1. Available with the following language kits:-01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK)

United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06

Swedish Sweden-07 Danish (DK)

Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE)

Belgium-12 Irish Ireland-13 German

(AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United

States of America-18 Polish

Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22

Hungarian Hungary-23 Danish (IC)

Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28

Finnish Finland-29 German (SW)

Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French

(SW) Switzerland-34 Italian (SW)

Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian

Belarus-43 Ukrainian Ukraine-44

Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48

Croatian Croatia-49 Macedonian

Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80

Chinese China-99 English (Int)

International English 2. Scope of the approval does not indicate the operation of the network functionality

*The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

3. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

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KFP-AE2, KFP-AE2-S	<p>4. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)</p> <p>Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 2 loop</p> <p>Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 2 loop small cabinet</p>	1199a/14
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Incorporating the following units:

2010-2F2-MB	Main control board
KFP-A-UI-E	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)
KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)
KFP-A-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
KFP-A-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with ATS7310 (GSM module)
2010-FS-EOL	Fault Supervision End of Line unit

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on KFP-AF2, KFP-AF2-PRT and KFP-AF2-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on KFP-A-F2, KFP-AF2-PRT and KFP-AF2-S)
7.10	Output to fire protection equipment - Type A,B and C (not available on KFP-A-F2, KFP-A-F2-PRT and KFP-A-F2-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

1. Available with the following language kit options: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int)

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ZP2-E2, ZP2-E2-S	International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalunia (Spain)-80 Chinese China-99 English (Int) International English 2. Scope of the approval does not indicate the operation of the network functionality Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 2 loop Intelligent Analogue Addressable Fire and Evacuation Panel with user interface with fire brigade controls - 2 loop small cabinet	1199a/14
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Incorporating the following units:

2010-2F2-MB	Main control board
ZP2-UI-E	User interface control board
2010-2-PS-40 4A	Power Supply
And as optional modules:	
ZP2-ZI-20	(20 Zone) (Large cabinet variant only)
ZP2-ZI-40	(40 Zone) (Large cabinet variant only)
ZP2-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
ZP2-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with ATS7310 (GSM module)
2010-FS-EOL	Fault Supervision End of Line unit
ZP2-D-E-TP	Translucent door option for large cabinet*
ZP2-D-E-TP-S	Translucent door option for large cabinet*

The above fire panels are certified with the following options with requirements from EN 54-2:

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment (not available on ZP2-F2, ZP2-F2-PRT and ZP2-F2-S)
7.9.2	Alarm confirmation input from fire alarm routing equipment (not available on ZP2-F2, ZP2-F2-PRT and ZP2-F2-S)
7.10	Output to fire protection equipment - Type A,B and C (not available on ZP2-F2, ZP2-F2-PRT and ZP2-F2-S)
7.11	Delays to outputs
7.12	Dependencies on more than one alarm signal (Type A, B and C)
7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disabling of addressable points
10	Test condition

Notes:

This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

1. Available with the following language kits:

-01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43

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2X-FR, 2X-FR-S	<p>Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p> <p>2. Scope of the approval does not indicate the operation of the network functionality *The translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:</p> <p>3. A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)</p> <p>4. A MCP (without program delay) fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)</p> <p>Intelligent Analogue Addressable Fire Panel Repeater Intelligent Analogue Addressable Fire Panel Repeater small cabinet</p> <p>Incorporating the following units:</p> <table border="0" style="margin-left: 20px;"> <tr> <td>2010-2FR-MB</td> <td>Main control board</td> </tr> <tr> <td>2X-UI</td> <td>User interface control board</td> </tr> <tr> <td>2010-2-PS-40 4A</td> <td>Power Supply</td> </tr> </table> <p>And as optional modules:</p> <table border="0" style="margin-left: 20px;"> <tr> <td>2X-ZI-20</td> <td>(20 Zone) (Large cabinet variant only)</td> </tr> <tr> <td>2X-ZI-40</td> <td>(40 Zone) (Large cabinet variant only)</td> </tr> <tr> <td>2X-ZI-24-S</td> <td>(24 Zone) (Small cabinet variant only)</td> </tr> <tr> <td>2010-2-NB</td> <td>Network card</td> </tr> <tr> <td>2X-LB</td> <td>Loop Board (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-232-KIT</td> <td>Interface board for external printer</td> </tr> <tr> <td>2010-2-PS-C2</td> <td>UK mains cable for large cabinet</td> </tr> <tr> <td>2010-2-PS-C2-S</td> <td>UK mains cable for small cabinet</td> </tr> <tr> <td>2010-2-PIB-8O</td> <td>Peripheral Interface Board 8 outputs (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-PIB-8I</td> <td>Peripheral Interface Board 8 inputs (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-PIB-8I8O</td> <td>Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-DACT</td> <td>with ATS7310 (GSM module)</td> </tr> <tr> <td>2X-D-TP</td> <td>Translucent door option for large cabinet*</td> </tr> <tr> <td>2X-D-TP-S</td> <td>Translucent door option for small cabinet*</td> </tr> <tr> <td>2010-FS-EOL</td> <td>Fault Supervision End of Line unit</td> </tr> </table>	2010-2FR-MB	Main control board	2X-UI	User interface control board	2010-2-PS-40 4A	Power Supply	2X-ZI-20	(20 Zone) (Large cabinet variant only)	2X-ZI-40	(40 Zone) (Large cabinet variant only)	2X-ZI-24-S	(24 Zone) (Small cabinet variant only)	2010-2-NB	Network card	2X-LB	Loop Board (Large cabinet variant only)	2010-2-232-KIT	Interface board for external printer	2010-2-PS-C2	UK mains cable for large cabinet	2010-2-PS-C2-S	UK mains cable for small cabinet	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	2010-2-DACT	with ATS7310 (GSM module)	2X-D-TP	Translucent door option for large cabinet*	2X-D-TP-S	Translucent door option for small cabinet*	2010-FS-EOL	Fault Supervision End of Line unit	1199a/R01
2010-2FR-MB	Main control board																																					
2X-UI	User interface control board																																					
2010-2-PS-40 4A	Power Supply																																					
2X-ZI-20	(20 Zone) (Large cabinet variant only)																																					
2X-ZI-40	(40 Zone) (Large cabinet variant only)																																					
2X-ZI-24-S	(24 Zone) (Small cabinet variant only)																																					
2010-2-NB	Network card																																					
2X-LB	Loop Board (Large cabinet variant only)																																					
2010-2-232-KIT	Interface board for external printer																																					
2010-2-PS-C2	UK mains cable for large cabinet																																					
2010-2-PS-C2-S	UK mains cable for small cabinet																																					
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)																																					
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)																																					
2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)																																					
2010-2-DACT	with ATS7310 (GSM module)																																					
2X-D-TP	Translucent door option for large cabinet*																																					
2X-D-TP-S	Translucent door option for small cabinet*																																					
2010-FS-EOL	Fault Supervision End of Line unit																																					
KFP-A-FR, KFP-A-FR-S	<p>Intelligent Analogue Addressable Fire Panel Repeater Intelligent Analogue Addressable Fire Panel Repeater small cabinet</p> <p>Incorporating the following units:</p> <table border="0" style="margin-left: 20px;"> <tr> <td>2010-2FR-MB</td> <td>Main control board</td> </tr> <tr> <td>KFP-A-UI</td> <td>User interface control board</td> </tr> <tr> <td>2010-2-PS-40 4A</td> <td>Power Supply</td> </tr> </table> <p>And as optional modules:</p> <table border="0" style="margin-left: 20px;"> <tr> <td>KFP-A-ZI-20</td> <td>(20 Zone) (Large cabinet variant only)</td> </tr> <tr> <td>KFP-A-ZI-40</td> <td>(40 Zone) (Large cabinet variant only)</td> </tr> <tr> <td>KFP-A-ZI-24-S</td> <td>(24 Zone) (Small cabinet variant only)</td> </tr> <tr> <td>2010-2-NB</td> <td>Network card</td> </tr> <tr> <td>KFP-A-LB</td> <td>Loop Board (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-232-KIT</td> <td>Interface board for external printer</td> </tr> <tr> <td>2010-2-PS-C2</td> <td>UK mains cable for large cabinet</td> </tr> <tr> <td>2010-2-PS-C2-S</td> <td>UK mains cable for small cabinet</td> </tr> <tr> <td>2010-2-PIB-8O</td> <td>Peripheral Interface Board 8 outputs (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-PIB-8I</td> <td>Peripheral Interface Board 8 inputs (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-PIB-8I8O</td> <td>Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)</td> </tr> <tr> <td>2010-2-DACT</td> <td>with ATS7310 (GSM module)</td> </tr> <tr> <td>2010-FS-EOL</td> <td>Fault Supervision End of Line unit</td> </tr> </table>	2010-2FR-MB	Main control board	KFP-A-UI	User interface control board	2010-2-PS-40 4A	Power Supply	KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)	KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)	KFP-A-ZI-24-S	(24 Zone) (Small cabinet variant only)	2010-2-NB	Network card	KFP-A-LB	Loop Board (Large cabinet variant only)	2010-2-232-KIT	Interface board for external printer	2010-2-PS-C2	UK mains cable for large cabinet	2010-2-PS-C2-S	UK mains cable for small cabinet	2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)	2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)	2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	2010-2-DACT	with ATS7310 (GSM module)	2010-FS-EOL	Fault Supervision End of Line unit	1199a/R01				
2010-2FR-MB	Main control board																																					
KFP-A-UI	User interface control board																																					
2010-2-PS-40 4A	Power Supply																																					
KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)																																					
KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)																																					
KFP-A-ZI-24-S	(24 Zone) (Small cabinet variant only)																																					
2010-2-NB	Network card																																					
KFP-A-LB	Loop Board (Large cabinet variant only)																																					
2010-2-232-KIT	Interface board for external printer																																					
2010-2-PS-C2	UK mains cable for large cabinet																																					
2010-2-PS-C2-S	UK mains cable for small cabinet																																					
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)																																					
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)																																					
2010-2-PIB-8I8O	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)																																					
2010-2-DACT	with ATS7310 (GSM module)																																					
2010-FS-EOL	Fault Supervision End of Line unit																																					
ZP2-FR, ZP2-FR-S	<p>Intelligent Analogue Addressable Fire Panel Repeater Intelligent Analogue Addressable Fire Panel Repeater small cabinet</p> <p>Incorporating the following units:</p>	1199a/R01																																				

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

2010-2FR-MB Main control board
ZP2-UI User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)
ZP2-ZI-40 (40 Zone) (Large cabinet variant only)
ZP2-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
ZP2-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2010-FS-EOL Fault Supervision End of Line unit
ZP2-D-TP Translucent door option for large cabinet*
ZP2-D-TP-S Translucent door option for small cabinet*

2X-FR-FB2, 2X-FR-FB2-S

Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls
Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls small cabinet

1199a/R02

Incorporating the following units:

2010-2FR-MB Main control board
2X-UI-FB2 User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)
2X-ZI-40 (40 Zone) (Large cabinet variant only)
2X-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
2X-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only)
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
ADP-N3E-U IFAM interface card (master) (Large cabinet variant only)
ADP-N3S interface card (slave) (Large cabinet variant only)
2010-2-DACT with ATS7310 (GSM module)
2X-D-FB2-TP Translucent door option for large cabinet*
2X-D-FB2-TP-S Translucent door option for small cabinet*
2010-FS-EOL Fault Supervision End of Line unit

KFP-A-FR-FB2-S, KFP-A-FR-FB2

Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls
Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls small cabinet

1199a/R02

Incorporating the following units:

2010-2FR-MB Main control board
KFP-A-UI-FB2 User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)
KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)
KFP-A-ZI-24-S (24 Zone) (Small cabinet variant only)
2010-2-NB Network card
KFP-A-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-2-PS-C2 UK mains cable for large cabinet

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Certificated Products

LPCB Ref. No.

ZP2-FR-FB2 S	ZP2-FR-FB2-S	2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S interface card (slave) (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls small cabinet	1199a/R02
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Incorporating the following units:

2010-2FR-MB	Main control board
ZP2-UI-FB2	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

2X-FR-SC	ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB Peripheral Interface Board (Germany) (Large cabinet variant only) 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) ADP-N3E-U IFAM interface card (master) (Large cabinet variant only) ADP-N3S interface card (slave) (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-FB2-TP Translucent door option for large cabinet* ZP2-D-FB2-TP-S Translucent door option for small cabinet* Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls (Scandinavia) Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls small cabinet (Scandinavia)	1199a/R03
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Incorporating the following units:

2010-2FR-MB	Main control board
2X-UI-SC	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

2X-ZI-20	(20 Zone) (Large cabinet variant only)
2X-ZI-40	(40 Zone) (Large cabinet variant only)
2X-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
2X-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-SK	Scandinavian key and lock assembly
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB	Peripheral Interface Board (Germany)
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O variant only)	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

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CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
KFP-A-FR-SC, KFP-A-FR-SC-S	2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls (Scandinavia) Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls small cabinet (Scandinavia)	1199a/R03
	Incorporating the following units: 2010-2FR-MB Main control board KFP-A-UI-SC User interface control board 2010-2-PS-40 4A Power Supply	
	And as optional modules:	
	KFP-A-ZI-20 (20 Zone) (Large cabinet variant only) KFP-A-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card KFP-A-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
ZP2-FR-SC, ZP2-FR-SC-S	2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls (Scandinavia) Intelligent Analogue Addressable Fire Panel Repeater with fire brigade controls small cabinet (Scandinavia)	1199a/R03
	Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-SC User interface control board 2010-2-PS-40 4A Power Supply	
	And as optional modules:	
	ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)	
2X-ER, 2X-ER-S	2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire and Evacuation Panel Repeater with fire brigade controls Intelligent Analogue Addressable Fire and Evacuation Panel Repeater with fire brigade controls small cabinet	1199a/R04
	Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-E User interface control board 2010-2-PS-40 4A Power Supply	
	And as optional modules:	
	2X-ZI-20 (20 Zone) (Large cabinet variant only)	

Certificated Products

LPCB Ref. No.

2X-ZI-40	(40 Zone) (Large cabinet variant only)
2X-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
2X-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O variant only)	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with ATS7310 (GSM module)
2X-D-E-TP	Translucent door option for large cabinet*
2X-D-E-TP-S	Translucent door option for small cabinet*
2010-FS-EOL	Fault Supervision End of Line unit

The above ancillary repeater units are certified with the following options with requirements from EN 54-2:

7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points (available on 2X-ER and 2X-ER-S variants only)
10	Test condition (available on 2X-ER and 2X-ER-S variants only)

*Important: the translucent door does not meet EN54-2 access level 1 requirements. To meet EN54-2 requirements with the door fitted the following is also required:

1) A Zone indicator board to display the zones in alarm (to meet requirements of EN54-2 part 7.3)

2) An MCP fitted beside the panel to allow overriding of delays (to meet requirements of EN54-2 part 7.11)

KFP-A-ER KFP-A-ER-S

Intelligent Analogue Addressable Fire and Evacuation Panel Repeater with fire brigade controls
Intelligent Analogue Addressable Fire and Evacuation Panel Repeater with fire brigade controls small cabinet

1199a/R04

Incorporating the following units:

2010-2FR-MB	Main control board
KFP-A-UI-E	User interface control board
2010-2-PS-40 4A	Power Supply

And as optional modules:

KFP-A-ZI-20	(20 Zone) (Large cabinet variant only)
KFP-A-ZI-40	(40 Zone) (Large cabinet variant only)
KFP-A-ZI-24-S	(24 Zone) (Small cabinet variant only)
2010-2-NB	Network card
KFP-A-LB	Loop Board (Large cabinet variant only)
2010-2-232-KIT	Interface board for external printer
2010-2-PS-C2	UK mains cable for large cabinet
2010-2-PS-C2-S	UK mains cable for small cabinet
2010-2-PIB-8O only)	Peripheral Interface Board 8 outputs (Large cabinet variant only)
2010-2-PIB-8I only)	Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O cabinet variant only)	Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)
2010-2-DACT	with ATS7310 (GSM module)
2010-FS-EOL	Fault Supervision End of Line unit

Above ancillary repeater units are certified with the following options with requirements from EN 54-2:

7.13	Alarm counter
8.4	Total loss of the power supply
8.9	Output to fault warning routing equipment
9.5	Disablement of addressable points (available on 2X-ER and

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Certificated Products		LPCB Ref. No.
ZP2-ER, ZP2-ER-S	2X-ER-S variants only) 10 Test condition (available on 2X-ER and 2X-ER-S variants only) Intelligent Analogue Addressable Fire and Evacuation Panel Repeater with fire brigade controls Intelligent Analogue Addressable Fire and Evacuation Panel Repeater with fire brigade controls small cabinet	1199a/R04
	Incorporating the following units: 2010-2FR-MB Main control board ZP2-UI-E User interface control board 2010-2-PS-40 4A Power Supply	
	And as optional modules:	
	ZP2-ZI-20 (20 Zone) (Large cabinet variant only) ZP2-ZI-40 (40 Zone) (Large cabinet variant only) ZP2-ZI-24-S (24 Zone) (Small cabinet variant only) 2010-2-NB Network card ZP2-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-2-DACT with ATS7310 (GSM module) 2010-FS-EOL Fault Supervision End of Line unit ZP2-D-E-TP Translucent door option for large cabinet* ZP2-D-E-TP-S Translucent door option for small cabinet	
	Certified with the following options with requirements from EN 54-2:	
2X-FR-SCFB, 2X-FR-SCFB-S	7.13 Alarm counter 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 9.5 Disabling of addressable points (available on 2X-ER and 2X-ER-S variants only) 10 Test condition (available on 2X-ER and 2X-ER-S variants only) Intelligent Analogue Addressable Fire Panel Repeater with SS3654 fire brigade controls (Scandinavia) Intelligent Analogue Addressable Fire Panel Repeater with SS3654 fire brigade controls small cabinet (Scandinavia)	1199a/R05
	Incorporating the following units: 2010-2FR-MB Main control board 2X-UI-SCFB User interface control board 2010-2-PS-40 4A Power Supply	
	And as optional modules:	
KFP-A-FR-SCFB, KFP-A-FR-SCFB-S	2X-ZI-20 (20 Zone) (Large cabinet variant only) 2X-ZI-40 (40 Zone) (Large cabinet variant only) 2010-2-NB Network card 2X-LB Loop Board (Large cabinet variant only) 2010-2-232-KIT Interface board for external printer 2010-SK Scandinavian key and lock assembly 2010-2-PS-C2 UK mains cable for large cabinet 2010-2-PS-C2-S UK mains cable for small cabinet 2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only) 2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only) 2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only) 2010-FS-EOL Fault Supervision End of Line unit Intelligent Analogue Addressable Fire Panel Repeater with SS3654 fire brigade controls (Scandinavia) Intelligent Analogue Addressable Fire Panel Repeater with SS3654 fire brigade controls small cabinet (Scandinavia)	1199a/R05

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CONTROL AND INDICATING EQUIPMENT

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No.**

Incorporating the following units:

2010-2FR-MB Main control board
KFP-A-UI-SCFB User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

KFP-A-ZI-20 (20 Zone) (Large cabinet variant only)
KFP-A-ZI-40 (40 Zone) (Large cabinet variant only)
2010-2-NB Network card
KFP-A-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-SK Scandinavian key and lock assembly
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)
2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT with AT57310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

ZP2-FR-SCFB, ZP2-FR-SCFB-S

Intelligent Analogue Addressable Fire Panel Repeater with SS3654 fire brigade controls (Scandinavia)
Intelligent Analogue Addressable Fire Panel Repeater with SS3654 fire brigade controls small cabinet (Scandinavia)

1199a/R05

Incorporating the following units:

2010-2FR-MB Main control board
ZP2-UI-SCFB User interface control board
2010-2-PS-40 4A Power Supply

And as optional modules:

ZP2-ZI-20 (20 Zone) (Large cabinet variant only)
ZP2-ZI-40 (40 Zone) (Large cabinet variant only)
2010-2-NB Network card
ZP2-LB Loop Board (Large cabinet variant only)
2010-2-232-KIT Interface board for external printer
2010-SK Scandinavian key and lock assembly
2010-2-PS-C2 UK mains cable for large cabinet
2010-2-PS-C2-S UK mains cable for small cabinet
2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT with AT57310 (GSM module)

2010-FS-EOL Fault Supervision End of Line unit

1X-F2 1X-F2-SC

Conventional two zone control and indicating equipment
Conventional two zone control and indicating equipment with Scandinavian key switch

1199b/01

Incorporating the following units:

2010-2F1- MB Main control board

2X-UI User interface control board

2010-2-PS-40 4A Power Supply

And as optional modules:

2X-ZI-20 (20 Zone) (Large cabinet variant only)

2X-ZI-40 (40 Zone) (Large cabinet variant only)

2010-2-NB Network card

2X-LB Loop Board (Large cabinet variant only)

2010-2-232-KIT Interface board for external printer

2010-2-PS-C2 UK mains cable for large cabinet

2010-2-PS-C2-S UK mains cable for small cabinet

2010-2-PIB-8O Peripheral Interface Board 8 outputs (Large cabinet variant only)

2010-2-PIB-8I Peripheral Interface Board 8 inputs (Large cabinet variant only)

2010-2-PIB-8I8O Peripheral Interface Board 8 outputs and 8 inputs (Large cabinet variant only)

2010-2-DACT with AT57310 (GSM module)

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Certificated Products

LPCB Ref.
No.

	<p>2X-D-TP Translucent door option for large cabinet* 2X-D-TP-S Translucent door option for small cabinet* 2010-FS-EOL Fault Supervision End of Line unit 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. International English 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary-23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int)</p>	
KFP-CF2 KFP-CF2-SC	<p>Conventional two zone control and indicating equipment Conventional two zone control and indicating equipment with Scandinavian key switch</p> <p>Incorporating the following units:</p> <p>KFP-CF2-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 2A Power Supply 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition</p> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary-23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE)</p>	1199b/01

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CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.																				
<p>Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p> <p>SG-2000 SG-2000SC Conventional two zone control and indicating equipment Conventional two zone control and indicating equipment with Scandinavian key switch <i>Incorporating the following units:</i></p> <p><i>1X-F2-MB Main control board</i> <i>2010-1-RB Optional relay board</i> <i>2010-1-SB Optional expander I/O board</i> <i>2010-1-NB Optional Network board</i> <i>2010-PS-20 2A Power Supply</i> <i>2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)</i> <i>Certified with the following options with requirements from EN 54-2:</i> 7.8 Output to fire alarm device(s) 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian</p>	<p>1199b/01</p>																				
<p>ZP1-F2 ZP1-F2-SC Conventional two zone control and indicating equipment Conventional two zone control and indicating equipment with Scandinavian key switch</p> <p><i>Incorporating the following units:</i></p> <table border="0"> <tr> <td><i>1X-F2-MB</i></td> <td><i>Main control board</i></td> </tr> <tr> <td><i>2010-1-RB</i></td> <td><i>Optional relay board</i></td> </tr> <tr> <td><i>2010-1-SB</i></td> <td><i>Optional expander I/O board</i></td> </tr> <tr> <td><i>2010-1-NB</i></td> <td><i>Optional Network board</i></td> </tr> <tr> <td><i>2010-PS-20 2A</i></td> <td><i>Power Supply</i></td> </tr> <tr> <td><i>2010-SK</i></td> <td><i>Scandinavian Key Lock and Key (Applicable to SC variant)</i></td> </tr> </table> <p><i>Certified with the following options with requirements from EN 54-2:</i></p> <table border="0"> <tr> <td>7.8</td> <td>Output to fire alarm device(s)</td> </tr> <tr> <td>7.11</td> <td>Delays to outputs</td> </tr> <tr> <td>8.4</td> <td>Total loss of the power supply</td> </tr> <tr> <td>10</td> <td>Test condition</td> </tr> </table> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality.</p>	<i>1X-F2-MB</i>	<i>Main control board</i>	<i>2010-1-RB</i>	<i>Optional relay board</i>	<i>2010-1-SB</i>	<i>Optional expander I/O board</i>	<i>2010-1-NB</i>	<i>Optional Network board</i>	<i>2010-PS-20 2A</i>	<i>Power Supply</i>	<i>2010-SK</i>	<i>Scandinavian Key Lock and Key (Applicable to SC variant)</i>	7.8	Output to fire alarm device(s)	7.11	Delays to outputs	8.4	Total loss of the power supply	10	Test condition	<p>1199b/01</p>
<i>1X-F2-MB</i>	<i>Main control board</i>																				
<i>2010-1-RB</i>	<i>Optional relay board</i>																				
<i>2010-1-SB</i>	<i>Optional expander I/O board</i>																				
<i>2010-1-NB</i>	<i>Optional Network board</i>																				
<i>2010-PS-20 2A</i>	<i>Power Supply</i>																				
<i>2010-SK</i>	<i>Scandinavian Key Lock and Key (Applicable to SC variant)</i>																				
7.8	Output to fire alarm device(s)																				
7.11	Delays to outputs																				
8.4	Total loss of the power supply																				
10	Test condition																				

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CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref.
No.

1X-F4
SC

1X-F4-NL

1X-F4-SC

3) Available with the following language kits:
-01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary-23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English

1X-F4 Conventional four zone control and indicating equipment
1X-F4-NL Conventional four zone control and indicating equipment
1X-F4-SC Conventional four zone control and indicating equipment

Incorporating the following units:

1X-F4-MB Main control board
2010-1-RB Optional relay board
2010-1-SB Optional expander I/O board
2010-1-NB Optional Network board
2010-PS-20 2A Power Supply
2010-1-AC Alarm Counter (Applicable to NL variant)
2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)

Certified with the following options with requirements from EN 54-2:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.11 Delays to outputs
7.13 Alarm counter (Applicable to NL variant only)
8.4 Total loss of the power supply
10 Test condition

Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode:

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.1 Output to fire protection equipment -Type A
7.11 Delays to outputs - Applicable to fire alarm routing equipment only
7.13 Alarm counter (Applicable to NL variant only)
8.4 Total loss of the power supply
8.9 Output to fault warning routing equipment
10 Test condition

1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

2) Scope of approval does not include the operation of the network functionality.

3) Available with the following language kits:

-01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian

1199b/02

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CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
<p>KFP-CF4 KFP-CF4-NL KFP-CF4-SC</p>	<p>1199b/02</p>
<p>Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p> <p>KFP-CF4 KFP-CF4-NL KFP-CF4-SC Conventional four zone control and indicating equipment Incorporating the following units: KFP-CF4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 2A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition</p> <p>Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition</p> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania- 28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p>	
<p>SG-4000 SG-4000SC</p>	<p>1199b/02</p>
<p>SG-4000 SG-4000SC Conventional eight zone control and indicating equipment Incorporating the following units: 1X-F4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 2A Power Supply 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s)</p>	

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CONTROL AND INDICATING EQUIPMENT

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**LPCB Ref.
No.**

ZP1-F4 ZP1-F4-NL ZP1-F4-SC	<p>7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English ZP1-F4 ZP1-F4-NL ZP1-F4-SC Conventional four zone control and indicating equipment</p> <p>Incorporating the following units:</p> <p>1X-F4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-20 2A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK)</p>	1199b/02
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PART 1: SECTION 3
CONTROL AND INDICATING EQUIPMENT

Certificated Products

LPCB Ref. No.

<p>Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania- 28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p>	<p>1X-F8 1X-F8-NL 1X-F8-SC</p>	<p>1X-F8 1X-F8-NL 1X-F8-SC Conventional eight zone control and indicating equipment Incorporating the following units:</p> <p>1X-F8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-40 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition</p> <p>Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition</p> <p>1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian</p>	<p>1199b/03</p>
<p>KFP-CF8 KFP-CF8-NL KFP-CF8-SC</p>	<p>KFP-CF8 KFP-CF8-NL KFP-CF8-SC Conventional eight zone control and indicating equipment Incorporating the following units: KFP-CF8-MB Main control board 2010-1-RB Optional relay board</p>	<p>1199b/03</p>	

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No.**

	<p>2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-40 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p>	
SG-8000 SG-8000SC	<p>SG-8000 SG-8000SC Conventional eight zone control and indicating equipment Incorporating the following units: 1X-F8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-40 4A Power Supply 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 8.4 Total loss of the power supply 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality.</p>	1199b/03

Certificated Products

**LPCB Ref.
No.**

<p>ZP1-F8 ZP1-F8-NL ZP1-F8-SC</p>	<p>3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU)</p> <p>German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary-23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania-46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p> <p>ZP1-F8 ZP1-F8-NL ZP1-F8-SC Conventional four zone control and indicating equipment</p> <p>Incorporating the following units: 1X-F8-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-40 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) 2010-SK Scandinavian Key Lock and Key (Applicable to SC variant)</p> <p>Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.10.1 Output to fire protection equipment -Type A 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition</p> <p>Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian</p>	<p>1199b/03</p>
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CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
1X-E4 1X-E4-NL	<p>Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) 1X-E4 1X-E4-NL Conventional four zone control and indicating equipment Incorporating the following units: 1X-E4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-40 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania- 28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English</p>	1199b/04
KFP-CE4 KFP-CE4-NL	<p>KFP-CE4 KFP-CE4-NL Conventional four zone control and indicating equipment Incorporating the following units: KFP-CE4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-PS-40 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply</p>	1199b/04

Certificated Products

**LPCB Ref.
No.**

ZP1-E4 ZP1-E4-NL	<p>10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04 German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew</p> <p>ZP1-E4 ZP1-E4-NL Conventional four zone control and indicating equipment Incorporating the following units: 1X-E4-MB Main control board 2010-1-RB Optional relay board 2010-1-SB Optional expander I/O board 2010-1-NB Optional Network board 2010-PS-40 4A Power Supply 2010-1-AC Alarm Counter (Applicable to NL variant) Certified with the following options with requirements from EN 54-2: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 10 Test condition Also certified with the following options with requirements from EN 54-2 when configured in the NEN operating mode: 7.8 Output to fire alarm device(s) 7.9.1 Output to fire alarm routing equipment 7.9.2 Alarm confirmation input from fire alarm routing equipment 7.11 Delays to outputs - Applicable to fire alarm routing equipment only 7.13 Alarm counter (Applicable to NL variant only) 8.4 Total loss of the power supply 8.9 Output to fault warning routing equipment 10 Test condition 1) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13. 2) Scope of approval does not include the operation of the network functionality. 3) Available with the following language kits: -01 Dutch (NL) The Netherlands-02 French (FR) France -03 English (UK) United Kingdom and Ireland -04</p>	1199b/04
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PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

**LPCB Ref.
No.**

German (DE) Germany-05 Norwegian Norway-06 Swedish Sweden-07 Danish (DK) Denmark-08 English (AU) Australia-09 Spanish Spain-10 Italian Italy-11 Dutch (BE) Belgium-12 Irish Ireland-13 German (AU) German (Austria)-14 Greek Greece-15 Arabic Middle East-17 English (US) United States of America-18 Polish Poland-19 Turkish Turkey-20 Czech Czech Republic-21 Portuguese Portugal-22 Hungarian Hungary -23 Danish (IC) Iceland-24 Slovakian Slovak Republic-25 Russian Russia-27 Lithuanian Lithuania-28 Finnish Finland-29 German (SW) Switzerland-30 Estonian Estonia-31 Latvian Latvia-32 French (BE) Belgium-33 French (SW) Switzerland-34 Italian (SW) Switzerland-36 French (Int) International French-40 Bulgarian Bulgaria-41 Belarusian Belarus-43 Ukrainian Ukraine-44 Serbian Serbia-45 Romanian (RO) Romania -46 German (Int) International German-48 Croatian Croatia-49 Macedonian Macedonia-50 Slovenian Slovenia-51 Hebrew Israel-71 Catalan Catalonia (Spain)-80 Chinese China-99 English (Int) International English

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E-mail: teresa.rodgers@carrier.com • Website: www.utcfireandsecurity.com

Certificate No: 1255d to EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006 and EN 54-16: 2008

Certificated Products

**LPCB Ref.
No.**
1255d/01

EST3

Fire Alarm Control System
Incorporating as modular units:
3-CPU3-E Central Processor Unit
3-LDSM-E Annunciator strip support module
3-IDC 8/4-E Initiating Device Circuits/NACS
3-LCD-E Main Display LCD, user interface
3-LRMF-E Local Rail Module Filler

EST3 24 LED Annunciators
3-24Y-E Annunciator Module, 24 Yellow LED
3-24R-E Annunciator Module, 24 Red LED
3-24G-E Annunciator Module, 24 Green LED
3-12RY-E Annunciator Module, 12 Red/Yellow LED

EST3 18 LED Annunciators
3-6/3S1G2Y-E Annunciator Module, 18 Green/Yellow LED
3-6/3S1GYR-E Annunciator Module, 18 Green/Yellow/Red LED

EST3 Control-Display Switch/LEDs
3-12SY-E Annunciator Module, 12 Switch Yellow LED
3-12SR-E Annunciator Module, 12 Switch Red LED
3-12SG-E Annunciator Module, 12 Switch Green LED
3-12/S1GY-E Annunciator Module, 12/24 Switch Green/Yellow LED
3-12/S1RY-E Annunciator Module, 12/24 Switch Red/Yellow LED

Loop Controller Modules
3-SSDC1-E Signature (Single), driver controller module
3-SDDC1-E Signature (Dual), driver controller module
3-AADC1-E System Sensor driver controller module
3-SDC1-E Signature, driver controller module
3-EAC-E Analogue Driver Card
3-EASC-E Single Analogue driver controller module
3-EADC-E Dual Analogue driver controller module

Certificated Products

**LPCB Ref.
No.**

Power Supplies	
3-PPS/M-230-E	Primary Power Supply 230V
3-BPS/M-230-E	Booster Power Supply 230V
3-BBC/M-230-E	Booster, Battery Charger Power Supply 230V
3-PSMON-E	Primary Power Supply Monitor
3-BPMON-E	Booster Power Supply Monitor
3-BBCMON-E	Booster, Battery Charger Monitor
Communication Cards	
3-RS485A-E	Data Communication, Class A
3-RS485B-E	Data Communication, Class B
3-RS232-E	Serial Communications Card (Printer, etc)
EFM-2	Data Communications Filter - 2 Circuits
EFM-10	Data Communications Filter - 10 Circuit
Fibre Modules	
3-FIBMB2-E	Fibre Optic Interface Module
SMXLO2-E	Standard Output Single Mode Fibre Optic Transceiver
SMXHI2-E	High Output Single Mode Fibre Optic Transceiver
MMXVR-E	Standard Output Multimode Fibre Optic Transceiver
Enclosure Assemblies	
3-CAB7B-E	CAB7 Enclosure Backbox
3-CAB14B-E	CAB14 Enclosure Backbox
3-CAB21B-E	CAB21 Enclosure Backbox
3-CAB7D(R)-E	CAB7 Inner/Outer Enclosure Doors - (R) indicates red
3-CAB14D(R)-E	CAB14 Inner/Outer Enclosure Doors - (R) indicates red
3-CAB21D(R)-E	CAB21 Inner/Outer Enclosure Doors - (R) indicates red
Remote Chassis Cabinets	
3-RCC7R-E	Remote Closet Cabinet, Single Chassis - Red
3-RCC14R-E	Remote Closet Cabinet, Two Chassis - Red
3-RCC21R-E	Remote Closet Cabinet, Three Chassis - Red
3-BTSEN-E	Remote battery cabinet interlace, temperature sensing
BC-1	Battery Cabinet
3-TAMP	Tamper Switch for 3-CAB7/14/21 Cabinets
3-TAMPRCC	Tamper Switch for 3-RCC Cabinet
Audio & Telephone Common Controls - Chassis Assemblies	
3-CHAS7-E	Module - Chassis Assy for 7 LRMs
3-CHASS4-E	Module - Chassis Assy for REMIC & 4 LRMs
3-ASU-E	Audio Source Unit with a 3-Chassis
3-ASU/4-E	Audio Source Unit with 4 LRM slots
3-ASUMX/100	100 minute extended audio memory card
3-ASU/FT-EN	Audio Source Unit with Fire Fighter Telephone
3-FTCU-E	Firefighter Telephone Control Unit
3-ZA20A-E	20 watt Zone Amplifier, Class A
3-ZA20B-E	20 watt Zone Amplifier, Class B
3-ZA40A-E	40 watt Zone Amplifier, Class A
3-ZA40B-E	40 watt Zone Amplifier, Class B
3-BATS	Battery Shelf for Single 65AH Cell
3-CBLKIT1	Extended Rail Cable Kit
3-CPUDR	CPU Door Kit
Certified with the following options with requirements from EN 54-2	
7.8	Output to fire alarm devices
7.13	Alarm counter
8.3	Fault Signals from points
10	Test condition
Certified with the following options with requirements from EN 54-16	
7.3	Audible warning
7.4	Delay(s) to entering the voice alarm condition
7.5	Phased evacuation
7.6.2	Manual silencing of the voice alarm condition
7.7.2	Manual reset of the voice alarm condition
7.9	Voice alarm condition output
8.4	Indication of faults related to voice alarm zones
9	Disablement condition
10	Voice alarm manual control
12	Emergency microphone(s)
13.14	Redundant power amplifiers

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products

EST3 Repeater

Incorporating as modular units:

3-ANNCPU3-E Remote Annunciator CPU with a 3-LCD
3-ANNSM-E Remote (repeater) Annunciator Support Module
3-LCDANN-E LCD Display and User Interface for Remote Annunciator

Annunciator Back Boxes and Doors Assemblies

3-10ANN-E Remote Annunciator Back Box, 10 slots, with Door
3-10ANN/D-E Inner/Outer Door Assembly for 3-10ANN-E
10ANN/B Flush Mount Backbox for 3-10ANN-E
10ANN/B-S Surface Mount Backbox for 3-10ANN-E
3-6ANN-E Remote Annunciator Back Box, 6 slots, with Door
3-6ANN/D-E Inner/Outer Door Assembly for 3-6ANN-E
6ANN/B Flush Mount Backbox for 3-6ANN-E
6ANN/B-S Surface Mount Backbox for 3-6ANN-E
3-RLCM/D-E EST3 Remote Annunciator Door Assembly
RLCM/B Remote Annunciator Flush Mount Backbox
RLCM/B-S Remote Annunciator Surface Mount Backbox
3-FP Blank Filler Plate
3-XFP Blank Filler Plate for 3-CAB Cabinet Series
3-LKE Label Insert Kit- English
3-LKR Label Insert Kit- Russian
3-LKS Label Insert Kit- Spanish
3-LKF Label Insert Kit - French

**LPCB Ref.
No.**
1255d/R01

VES Fire Detection Systems

620 Allendale Road, King of Prussia, Philadelphia, PA. 19406, USA

Tel: (+1) 6109922238

E-mail: info@ves-network.com • Website: <http://www.ves-network.com>

Certificate No: 360b-(cl-3) to EN 54-2:1997 + A1:2006, EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

VES Latitude

2 to 8 Loop Analogue Addressable Control and Indicating Equipment
2 to 16 Loop Analogue Addressable Control and Indicating Equipment

Incorporating the following units:

S721 LCD Main Processor Board
S722 Main Back Board
S723 Network, Ethernet & IFAM Interface Module
S758 Dual loop Module (Hochiki protocol)
S769 System Board A module
S770 System Board B Module
S771 Zone LED Board
S787 Vision Unit
S768 Thermal Printer Assembly
S406-06 5.25 Amp Power Supply Unit

Incorporating the following optional modules:

S408 10.25 Amp Power Supply Unit
S772 16 Channel I/O card
S791 8w Relay card
S792 8w conventional zone card
S788 Media gateway card
S793 4w sounder card
S786 4 slot expansion board (used for extension for the optional I/O boards)

Certified with the following Options with requirements from EN 54-2:1997

7.8 Output to fire alarm device(s)
7.9.1 Output to fire alarm routing equipment
7.9.2 Alarm confirmation input from fire alarm routing equipment
7.10.3 Output to type C
7.10.4 Fault monitoring of fire protection equipment
7.11 Delay to outputs
7.12.1 Dependencies on more than one alarm signal - Type A
7.12.2 Dependencies on more than one alarm signal - Type B

**LPCB Ref.
No.**
360b/01

Certificated Products

LPCB Ref.
No.

- 7.12.3 Dependencies on more than one alarm signal - Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 8.9 Output to fault warning routing equipment
- 9.5 Disabling of addressable points
- 10 Test condition

Notes:

1. The CIE is approved with Hochiki & Argus Vega protocols via the S758 card.
2. Scope of certification does not include the operation of the network functionality.
3. This certificate does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.
4. The VES Latitude CIE is certified with the M5 & M6 shallow enclosure and D5 & D6 deep enclosure.

V-GREAT GLOBAL CORPORATION

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E-mail: vgreotech@hotmail.com

Certificate No: 1174e-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Certificate No: 1174j-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

VG-6831/16	<p>16 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.004 16 Zone Control Board VSL2.908.007 16 Zone Display Board PD-100-24 AC/DC Power Supply Module VSL2.908.005 16 Zone Signal Output Board</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	1174e/01
VG-6831/8	<p>8 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.042 8 Zone Control Board VSL2.908.043 8 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	1174e/02
VG-6831/4	<p>4 Zone Conventional Control and Indicating Equipment <i>Incorporating the following units:</i> VSL2.908.044 4 Zone Control Board VSL2.908.045 4 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p><i>Certified with the following Options with requirements from EN 54-2:1997</i> 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p><i>Note:</i> 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	1174e/03

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products		LPCB Ref. No.
VG-6831/2	<p>systems requirements of EN 54-13. 2 Zone Conventional Control and Indicating Equipment Incorporating the following units: VSL2.908.046 2 Zone Control Board VSL2.908.047 2 Zone Display Board PD-100-24 AC/DC Power Supply Module</p> <p>Certified with the following Options with requirements from EN 54-2:1997 7.8 Output to fire alarm device(s) 7.11 Delay to outputs 10 Test condition</p> <p>Note: 1. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	1174e/04
VG-6847	<p>4 Loop Analogue Addressable Control and Indicating Equipment</p> <p>Incorporating the following modules: VSL2.908.146 Main Board VSL2.908.149 Indication board VSL2.908.155 Terminal board VSL2.908.162 Control Board VSL2.908.153 Loop Card VSL2.908.152 I/O Board VSL2.908.169 Power Board VSL7-820-150 Zone Board VSL7-820-154 Network Card LRS-150-24 MEAN-WELL Power Supply module</p> <p>Certified with the following option with requirements for EN54-2: 7.8 Output to fire alarm devices 7.10.1 Outputs to fire protection equipment (Type A) 7.10.2 Outputs to fire protection equipment (Type B) 7.10.3 Outputs to fire protection equipment (Type C) 7.10.4 Fault monitoring of fire protection equipment 7.11 Delays to outputs 7.12.1 Dependencies on more than one alarm signal (Type A dependency) 7.12.2 Dependencies on more than one alarm signal (Type B dependency) 7.12.3 Dependencies on more than one alarm signal (Type C dependency) 7.13 Alarm Counter 9.5 Disablement of addressable point 10 Test condition</p> <p>Notes: 1. The scope of the approval does not include the operation of the network functionality 2. This approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.</p>	1174j/01

VIVA ELEKTRONIK SISTEMLER

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E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426g-(cl-1) to EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.
1426g/01

VI FCP-1L Single Loop Analogue Addressable Fire Alarm Control Panel
Incorporating the following modules:
SEC3002_IO IO Board
SEC3002_B Monitoring Board (B Board)
ZB-9100-A Main CPU Board (A Board)
PSE10_KZ Power Supply
SEC3002_QK Zone Indication Board
SEC3002_KEY Key Board
SEC3002_FL1 Loop SPU Board

Incorporating the following optional modules:
SEC3002_COM Communication Board

Certified with the following options with requirements from EN54-2:

- 7.8 Output to fire alarm devices
- 7.10.1 Output type A
- 7.11 Delays to outputs
- 8.3 Fault signals from points
- 9.5 Disabling of addressable point
- 10 Test condition

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.
2. Scope of approval does not include the operation of the network functionality.

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E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450g to EN 54-2:1997 + A1:2006 & EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.
1450g/01

JB-TB-TC5109 1-4 Loops Analogue Addressable Fire Alarm Control Panel
Incorporating the following modules:
TC5109-Main Main board
TC5109-Loop Loop board
TC5109-XZB Loop base board
TC5109-Key Keypad board
TC5109-ZX Zone and FPE indicator board
TC5109-LCD Display board
TC5109-SCR Indicator board
TC5120-RS485 RS485 board
TC5000-MAIN-CAN CAN board
TC5109-LB1 Filter board 1
TC5109-LB2 Filter board 2
TC5109-POW Power Supply Equipment

Certified with the following options with requirements:

- 7.8 Output to fire alarm device(s)
- 7.10.1 Output to automatic fire protection equipment Type A
- 7.10.2 Output to automatic fire protection equipment Type B
- 7.10.3 Output to automatic fire protection equipment Type C
- 8.3 Fault signals from point
- 9.5 Disabling of addressable points

Notes:

1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.
2. Scope of approval does not include the operation of the network functionality.

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

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Certificate No: 1124a to EN54-2: 1997 + A1: 2006 and EN54-4: 1997 + A1: 2002 + A2: 2006

Control and indicating equipment

Certificated Products

LPCB Ref.
No.

NJP-400A

Analogue addressable and Conventional control and indicating equipment.

1124a/01

Incorporating the following units:

UPMO 400	Control and display module
NAMO 400	Power supply module
CPMO 400	Central processor module

Optional modules:

LIMO-Ap 400	Line module Apollo
LIMO-Ko 400	Line module conventional
VIMO 400	Input output module
IZMO 400	Output module
MRMO 400	Network module
Eng_pack	English language kit
Slo_pack	Slovenian language kit

Certified with the following options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment
7.10.1	Output to fire protection equipment type A
7.10.2	Output to fire protection equipment type B
7.11	Delays to the auctioning of outputs
8.3	Fault signals from points
9.5	Disablement of each address point
10	Test condition

Notes:

- 1) Scope of approval does not include the operation of the network functionality.
- 2) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

NJP-401A

Analogue addressable and Conventional control and indicating equipment.

1124a/02

Incorporating the following units:

UPMO 400	Control and display module
NAMO 401	Power supply module
CPMO 400	Central processor module

Optional modules:

LIMO-Ap 400	Line module Apollo
LIMO-Ko 400	Line module conventional
VIMO 400	Input output module
IZMO 400	Output module
MRMO 400	Network module
Eng_pack	English language kit
Slo_pack	Slovenian language kit

Certified with the following options with requirements from EN 54-2:1997

7.8	Output to fire alarm device(s)
7.9.1	Output to fire alarm routing equipment
7.10.1	Output to fire protection equipment type A

Certificated Products

LPCB Ref. No.

- 7.10.2 Output to fire protection equipment type B
- 7.11 Delays to the auctioning of outputs
- 8.3 Fault signals from points
- 9.5 Disablement of each address point
- 10 Test condition

Notes:

- 1) Scope of approval does not include the operation of the network functionality.
- 2) This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN54-13.

Zhongshan Guta Fire Equipment Technology Co., Ltd

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 E-mail: strongwang@asenware.com • Website: www.guta-fire.com

Certificate No: 1395c to EN 54-2:1997 + A1:2006 and EN 54-4:1997 + A1:2002 + A2:2006

Control and indicating equipment

Certificated Products

LPCB Ref. No.

AW-CFP2166-4 4 Zone Conventional Control and Indicating Equipment Incorporating the following units:
 Asenware Main Board Main Board
 Asenware Interface Board Interface Board
 Asenware PSE Power and Charger Board
 Asenware Zonal Board 1 x 4 Zone Board
 Asenware EMI EMI Board

1395c/01

- Certified with the following options with requirements from EN54-2: 1997 + A1: 2006:
- 7.8 Output to fire alarm devices (option with requirements)
 - 7.9.1 Output to fire alarm routing equipment (option with requirements)
 - 7.10.1 Output type A (option with requirement)
 - 7.10.2 Output type B (option with requirement)
 - 8.9 Output to fault warning routing equipment (option with requirements)

Note:

- 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

AW-CFP2166-8 8 Zone Conventional Control and Indicating Equipment Incorporating the following units:
 Asenware Main Board Main Board
 Asenware Interface Board Interface Board
 Asenware PSE Power and Charger Board
 Asenware Zonal Board 2 x 4 Zone Boards
 Asenware EMI EMI Board

1395c/02

- Certified with the following options with requirements from EN54-2: 1997 + A1: 2006:
- 7.8 Output to fire alarm devices (option with requirements)
 - 7.9.1 Output to fire alarm routing equipment (option with requirements)
 - 7.10.1 Output type A (option with requirement)
 - 7.10.2 Output type B (option with requirement)
 - 8.9 Output to fault warning routing equipment (option with requirements)

Note:

- 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.

AW-CFP2166-12 12 Zone Conventional Control and Indicating Equipment

1395c/03

Incorporating the following units:

- Asenware Main Board Main Board
- Asenware Interface Board Interface Board
- Asenware PSE Power and Charger Board
- Asenware Zonal Boards 3 x 4 Zone Boards
- Asenware EMI EMI Board

- Certified with the following options with requirements from EN54-2: 1997 + A1: 2006:
- 7.8 Output to fire alarm devices (option with requirements)
 - 7.9.1 Output to fire alarm routing equipment (option with requirements)

PART 1: SECTION 3

CONTROL AND INDICATING EQUIPMENT

Certificated Products	LPCB Ref. No.
7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) <i>Note:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
AW-CFP2166-16 16 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 4 x 4 Zone Boards Asenware EMI EMI Board	1395c/04
Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) <i>Note:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
AW-CFP2166-20 20 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 5 x 4 Zonal Boards Asenware EMI EMI Board	1395c/05
Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) <i>Note:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
AW-CFP2166-24 24 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 6 x 4 Zone Boards Asenware EMI EMI Board	1395c/06
Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) <i>Note:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
AW-CFP2166-28 28 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board Asenware Interface Board Interface Board Asenware PSE Power and Charger Board Asenware Zonal Boards 7 x 4 Zone Boards Asenware EMI EMI Board	1395c/07
Certified with the following options with requirements from EN54-2: 1997 + A1: 2006: 7.8 Output to fire alarm devices (option with requirements) 7.9.1 Output to fire alarm routing equipment (option with requirements) 7.10.1 Output type A (option with requirement) 7.10.2 Output type B (option with requirement) 8.9 Output to fault warning routing equipment (option with requirements) <i>Note:</i> 1. <i>This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</i>	
AW-CFP2166-32 32 Zone Conventional Control and Indicating EquipmentIncorporating the following units: Asenware Main Board Main Board	1395c/08

Certificated Products

**LPCB Ref.
No.**

Asenware Interface Board Interface Board
Asenware PSE Power and Charger Board
Asenware Zonal Boards 8 x 4 Zone Boards
Asenware EMI EMI Board

Certified with the following options with requirements from EN54-2: 1997 + A1: 2006:

7.8 Output to fire alarm devices (option with requirements)

7.9.1 Output to fire alarm routing equipment (option with requirements)

7.10.1 Output type A (option with requirement)

7.10.2 Output type B (option with requirement)

8.9 Output to fault warning routing equipment (option with requirements)

Note:

1. *This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.*

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

There are many types of detectors on the market designed to work on different principles and fire parameters (e.g. smoke, flame radiation, convective heat etc). The selection of a detector for a particular area or application should be based on a number of factors including the following:

- The nature of the fire hazard
- The speed of response required
- The need to minimize false alarms

There are other factors to be taken into account such as architecture of the building, ease of maintenance and cost, etc.

Guidance on the selection of appropriate types of detectors should be sought from the applicable installation rule or code of practice (e.g. BS 5839-1). Where a particular type of detector is not covered by the installation rule or code of practice then guidance should be sought from the manufacturer's literature. In any case, account should be given to the notes or limitations given with the listed detector in this section.

This section lists fire detectors approved for use in fire detection and fire alarm systems in buildings.

The initial approval and continued approval processes for detectors are outlined in scheme document SD021.

The list includes detectors certified to recognised standards or to special test schedules which are developed by LPCB for detector types where suitable standards are not available or were not available at the time of the evaluation.

Products listed in this section have been approved to:

- EN 54-5: 2000 *Heat detectors - point detectors*
- EN 54-5: 2000 + A1: 2002 *Heat detectors - point detectors*
- EN 54-7: 2000 *Smoke detectors - point detectors using scattered light, transmitted light or ionisation*
- EN 54-7 :2000 +A1: 2002 and A2: 2006 *Smoke detectors - point detectors using scattered light, transmitted light or ionisation*
- EN 54-10: 2002 *Flame detectors - point detectors*
- EN 54-10: 2002 + A1: 2005 *Flame detectors - point detectors*
- EN 54-12: 2002 *Smoke detectors - line detectors using an optical light beam*
- EN 54-20: 2006 *Aspirating smoke detectors*
- EN 54-25: 2008 *Components using radio links*
- ISO7240-5: 2003 *Point -type heat detectors*
- ISO7240-6: 2004 *Carbon monoxide fire detectors using electro-chemical cells*
- ISO7240-7: 2003 *Point-type smoke detectors using scattered light, transmitted light or ionization*
- ISO7240-12: 2005 *Line type smoke detectors using transmitting light beam*
- ISO7240-15: 2004 *Multisensor fire detectors*
- ISO 7240-6: 2008 *Carbon monoxide fire detectors using electro-chemical cells and heat sensors.*
- CEA 4021: 1999 *Requirements and test methods for multisensor detectors, which respond to smoke and heat, and smoke detectors with more than one smoke sensor*
- CEA 4021: 2003 *Requirements and test methods for multisensor detectors, which respond to smoke and heat, and smoke detectors with more than one smoke sensor*
- LPS 1265-1.1: 2005 *Requirements and Testing Procedures for the LPCB Approval and Listing of Carbon Monoxide Fire Detectors Using Electrochemical Cells*
- LPS 1274-1.0: 2005 *Testing Procedures for the LPCB Approval and Listing of Carbon Monoxide /Heat Multisensor Fire Detectors Using Electrochemical Cells*
- LPS 1279-1.0: 2006 *Testing Procedures for the LPCB Approval and Listing of Point Multisensor Fire Detectors using Optical or Ionization Smoke Sensors and Electrochemical Cell CO Sensors and, optionally, Heat Sensors*
- LPS 1280-1.0: 2007 *Testing Procedures for the LPCB Approval and Listing of Duct Smoke Detectors using Point Smoke Detectors*

Approval can also be obtained for other detection principles not detailed above. In such circumstances, LPCB can develop test criteria to evaluate products, which in time may be used for the development of standards.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. EN 54-5: 2000 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 30 June 2005. It is therefore recommended that heat detectors are certificated to EN 54-5: 2000 + A1: 2002
2. EN 54-7: 2000 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 30 June 2005. It is therefore recommended that smoke detectors are certificated to EN 54-7: 2000 + A1: 2002 and A2: 2006
3. EN 54-10: 2002 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 1 September 2008. It is therefore recommended that flame detectors are certificated to EN 54- 10: 2002 + A1: 2005
4. EN 54-12: 2002 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 31 December 2005. It is therefore recommended that beam detectors are certificated to EN 54- 12: 2002
5. EN 54-25: 2008 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 1 March 2011. It is therefore recommended that radio link components are certificated to EN 54- 25: 2008
6. CEA 4021: 2003 supersedes CEA 4021: 1999 which was withdrawn in June 2003 (i.e. at the same time as the national versions of EN 54-5: 1976 and EN 54-7: 1982 were officially withdrawn and replaced with EN 54- 5: 2000 and EN 54-7: 2000).
7. EN 54-20: 2006 supersedes CEA 4022: 1999 which should have been withdrawn in 2009.
EN 54-20: 2006 is now a harmonised standard for the Construction Products Directive and CE marking is required for most of the European market since 1 July 2009. It is therefore recommended that aspirating detectors are certificated to EN 54-20: 2006.
8. The bases with which a detector has been evaluated and shown to meet the relevant standards are listed with each detector. Bases are not approved/certificated in their own right unless they are combined with another device (e.g. short circuit isolator or sounder).
9. Since LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

ADI International

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PART 1: SECTION 4.1

COMMERCIAL DETECTORS

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Certificate No: 928a-(cl-5) to EN54-5: 2000 + A1: 2002 and EN 54 -17: 2005

Certificate No: 928d-(cl-5) to EN 54-5: 2000 + A1: 2002

Certificate No: 928j-(cl-1) to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008

Certificate No: 928ad-(cl-1) to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Certificate No: 928ag-(cl-1) to EN 54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
Axis-HTX	Analogue Addressable Class P Heat Detector with Short Circuit Isolator (Axis-MB base) Note: 1. Meets the requirements of EN 54-5 at Class A1R and Class BS	928ad/01
Axis-HT	Addressable Class P Heat Detector (Axis-MB base) Note: 1. Meets the requirements of EN 54-5 for Class A1R and Class BS	928ag/01
20-AS3500-ADV	Conventional Class P, heat detector (20-AB100-ADV, 20-ABR100-ADV, 20-ABDR100-ADV, 20-ABS100-ADV, 20-ABSR100-ADV and 20-ABSRD100-ADV) Note: 1. Meets the requirements of EN 54-5 for Class A1R and Class B.	928d/02
20-SG350-ADV	Wireless heat detector (WAB100 base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. The device must be used with the following batteries only: <ul style="list-style-type: none">CR123A (3 Vdc) - main batteryCR2032A (3 Vdc) - secondary battery	928j/01
Axis-RHT	Axis Wireless Addressable Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases

20-AB100-ADV	Mounting base
20-VB100-ADV	Mounting base (with link resistor)
20-ABR100-ADV	Universal adaptor base with resistor
20-ABDR100-ADV	Universal adaptor base with resistor and Schottky diode
20-ABS100-ADV	Deep adaptor base
20-ABSR100-ADV	Deep adaptor base with resistor
20-ABSRD100-ADV	Deep adaptor base with resistor and Schottky diode
WAB100	Wireless adaptor base

Axis-MB Mounting Base

Certificate No: 928b-(cl-5) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54 -17: 2005

Certificate No: 928e-(cl-5) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 928ab-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-17: 2005

Certificate No: 928ae-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
Axis-OPX	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (Axis-MB base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928ab/01
Axis-OP	Addressable Photoelectric Smoke Detector (Axis-MB base)	928ae/01

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

Note:

1. Meets the requirements of EN 54-7 at the following sensitivity settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

20-AS1000-ADV

Conventional photo smoke detector (20-AB100-ADV, 20-ABR100-ADV, 20-ABDR100-ADV, 20-ABS100-ADV, 20-ABSR100-ADV and 20-ABSRD100-ADV)

928e/02

Bases

20-AB100-ADV

Mounting base

20-VB100-ADV

Mounting base (with link resistor)

20-ABR100-ADV

Universal adaptor base with resistor

20-ABDR100-ADV

Universal adaptor base with resistor and Schottky diode

20-ABS100-ADV

Deep adaptor base

20-ABSR100-ADV

Deep adaptor base with resistor

20-ABSRD100-ADV

Deep adaptor base with resistor and Schottky diode

Axis-MB

Mounting Base

Certificate No: 928c-(cl-5) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54 -17: 2005 & CEA4021: 2003

Certificate No: 928f-(cl-5) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 928ac-(cl-1) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 & CEA 4021: 2003

Certificate No: 928af-(cl-1) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021:2003

Multi-sensor detectors

Certificated Products

LPCB Ref.
No.

Axis-OHX

Addressable Multi-Criteria Detector with Short Circuit Isolator (Axis-MB base)

928ac/01

Notes:

1. Meets the requirements of EN 54-5 & EN 54-7 at the following

settings:

Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response

Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response

Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response

Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response

2. Meets the requirements of EN 54-5 at the following settings:

Class A1R heat only response

3. Meets the requirements of EN 54-7 at the following sensitivity settings:

Optical only level 1 - High

Optical only level 2

Optical only level 3

Optical only level 4 - Low

Axis-OH

Addressable Photoelectric Smoke Detector & Heat Detector (Axis-MB Base)

928af/01

Notes:

1. Meets the requirements of EN 54-5 & EN 54-7 at the following

settings:

Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response

Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response

Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response

Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response

2. Meets the requirements of EN 54-5 at the following settings:

Class A1R heat only response

3. Meets the requirements of EN 54-7 at the following settings:

Optical only level 1 - High sensitivity

Optical only level 2

Optical only level 3

Optical only level 4 - Low sensitivity

Bases

20-AB100-ADV

Mounting base

20-VB100-ADV

Mounting base (with link resistor)

Axis-MB

Mounting Base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 928k-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Smoke Detectors

Certificated Products

		LPCB Ref. No.
20-SG100-ADV	Wireless optical smoke detector (WAB100 base) Notes: <ol style="list-style-type: none">Meets the requirements of EN 54-7 in the normal sensitivity settingThe device must be used with the following batteries only:<ul style="list-style-type: none">CR123A (3 Vdc) - main batteryCR2032A (3 Vdc) - secondary battery	928k/01
Axis-ROP	Axis Wireless Addressable Optical Smoke Detector (WAB100 Base) Notes: <ol style="list-style-type: none">Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - LowThe device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-1) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
20-SG200-ADV	Wireless multi-criteria detector (WAB100 base) Notes: <ol style="list-style-type: none">Meets the requirements of EN 54-5 for Class A1RMeets the requirements of EN 54-7 in the normal sensitivity settingThe device must be used with the following batteries only:<ul style="list-style-type: none">CR123A (3 Vdc) - main batteryCR2032A (3 Vdc) - secondary battery	928m/01
Axis-ROH	Axis Wireless Addressable Multicriteria Detector (WAB100 Base) Notes: <ol style="list-style-type: none">Meets the requirements of EN 54-5 for Class A1RMeets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - LowThe device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928m/02

Bases:

WAB100 Wireless Adaptor Base

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain

Tel: +34 91 806 2343 • Fax: +34 91 803 1171

E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928a-(cl-3) to 54-5: 2000 + A1: 2002 and EN 54 -17: 2005

Certificate No: 928d-(cl-3) to EN 54-5: 2000 + A1: 2002

Certificate No: 928j-(cl-2) to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008

Certificated Products

		LPCB Ref. No.
AT420A	Analogue Addressable Class P Heat Detector with Short-Circuit Isolator Base) Note: <ol style="list-style-type: none">Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	(BA400) 928a/02
AT120CM	Conventional Class P, heat detector (BA100 and BA101 bases)	928d/02

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>AT420AS</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R and Class B. Addressable Class P Heat Detector (BA400 Base)</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS</p>	928d/03
<p>ATW120A</p> <p>Wireless heat detector (WAB100 base)</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-5 for Class A1R 2. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery</p>	928j/01
<p>ATW420A</p> <p>Wireless Libra Addressable Class P Heat Detector (WAB100 Base)</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-5 for Class A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery</p>	928j/02

Bases

BA100	Mounting base
BA101	Deep adaptor base
WAB100	Wireless Adaptor Base
BA400	Low Profile Adaptor Base

Certificate No: 928b-(cl-3) to 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54 -17: 2005
Certificate No: 928e-(cl-3) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors

Certificated Products	LPCB Ref. No.
<p>AT410A</p> <p>Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (BA400 Base)</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low</p>	928b/02
<p>AT110CM</p> <p>Conventional photo smoke detector (BA100 and BA101 bases)</p>	928e/02
<p>AT410AS</p> <p>Addressable Photoelectric Smoke Detector (BA400 base)</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only - level 1 - High Optical only - level 2 Optical only - level 3 Optical only - level 4 - Low</p>	928e/03
<p>ATW410A</p> <p>Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery</p>	928k/02

Bases

BA100	Mounting base
BA101	Deep adaptor base
BA400	Low Profile Adaptor Base
WAB 100	Wireless Adaptor Base

Certificate No: 928c-(cl-3) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54 -17: 2005 & CEA4021: 2003
Certificate No: 928f-(cl-3) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Multi-sensor Detectors

Certificated Products	LPCB Ref. No.
<p>AT430A</p> <p>Addressable Multi-Criteria Detector with Short-Circuit Isolator (BA400 base)</p>	928c/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

AT430AS	<p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat responseMeets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only responseMeets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low <p>Addressable Photo & Class A1R Heat Detector (BA400 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat responseMeets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only responseMeets the requirements of EN 54-7 at the following settings: Optical only - level 1 - High sensitivity Optical only - level 2 Optical only - level 3 Optical only - level 4 - Low sensitivity	928f/02
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Bases

BA100	Mounting base
BA400	Low Profile Adaptor Base

Certificate No: 928k-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Smoke Detectors

Certificated Products

LPCB Ref.
No.

ATW110A	<p>Wireless optical smoke detector (WAB100 base)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-7 in the normal sensitivity settingThe device must be used with the following batteries only:<ul style="list-style-type: none">CR123A (3 Vdc) - main batteryCR2032A (3 Vdc) - secondary battery	928k/01
ATW410A	<p>Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - LowThe device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928m-(cl-2) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors
Certificated Products

		LPCB Ref. No.
ATW130A	Wireless multi-criteria detector (WAB100 base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting 3. The device must be used with the following batteries only: <ul style="list-style-type: none">CR123A (3 Vdc) - main batteryCR2032A (3 Vdc) - secondary battery	928m/01
ATW430A	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928m/02

Bases:
WAB100 Wireless Adaptor Base

Agni Controls

2/235 Kundrathur High Road, Gerugambakkam, Chennai 600122, India
Tel: • Fax:
E-mail: selva@agnicontrols.com • Website: www.balafire.com

Certificate No: 1259a to EN 54-10: 2002

Flame Detectors
Certificated Products

		LPCB Ref. No.
IH226	Conventional UV/IR Flame Detector (IHMB01-XY Base) Note: Meets the requirements of EN 54-10:2002 at Class 1 only	1259a/01

Bases
IHMB01-XY Swivel Mounting Base

AGNI Devices PVT Ltd

C-55 DSIDC Ind Complex, Tilak Vihar, Tilak Nagar, New Delhi 110018, India
Tel: +91 11 28335624
E-mail: info@agnidevices.com

Certificate No: 550a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors
Certificated Products

		LPCB Ref. No.
AD338-2L	Conventional photoelectric smoke detector (AD300 base)	550a/05

AD300 Standard Base

Certificate No: 550b to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors
Certificated Products

		LPCB Ref. No.
AD338-2HL	Conventional photo-thermal class A1R detector (AD300 base) Note: Meets the requirements of EN54-5: 2000 class A1R at pre-set sensitivity	550b/06

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Base:

AD300 standard base

Certificate No: 550c to EN54-5: 2000 + A1: 2002

Heat Detectors**Certificated Products**

AD318-2L Conventional A1R rate of rise heat detector (AD300 base)

LPCB Ref.
No.
550c/08**Base:**

AD300 standard base

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates

Tel: +971 42630396 • Fax: +971 42630397

E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174a-(cl-5) to EN 54-7:2000 +A1:2002 + A2:2006

Smoke Detectors**Certificated Products**

SC-6623 Conventional Optical Smoke Detector (SB-6611 base) (branded as SECURE)

Note:

1. Meets the requirements of EN 54-7: 2000 at default sensitivity setting only

SI-6627 Addressable Optical Smoke Detector (SB-6617 base) (branded as SECURE)

Note:

1. Meets the requirements of EN 54-7:2000 at the following sensitivities:

- Mode 0 (High)

- Mode 1 (Factory Setting)

- Mode 2

- Mode 3 (Low)

LPCB Ref.
No.
1174a/01

1174a/02

Bases

SB-6611 Base

SB-6617 Addressable mounting base

Certificate No: 1174b-(cl-5) to EN 54-5:2000 + A1:2002

Certificate No: 1174b-(cl-5) to EN 54-5:2000 + A1:2002

Heat Detectors**Certificated Products**

SC-6633 Conventional Heat Detector (SB-6611 base) (branded as SECURE)

Note:

1. Meets the requirements of EN 54-5: 2000 at class A2R

SI-6637 Addressable Heat Detector (SB-6617 base) (branded as SECURE)

Note:

1. Meets the requirements of EN 54-5:2000 at class A1R and A2

LPCB Ref.
No.
1174b/01

1174b/02

Bases

SB-6611 Base

SB-6617 Base

Certificate No: 1174f-(cl-1) to EN 54-5:2000 + A1:2002; EN 54-7:2000+A1:2002+A2:2006; CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors**Certificated Products**

SI-6647 Addressable Smoke and Heat Detector (SB-6617 base) (branded as SECURE)

Notes:

1) Meets the requirements of EN 54-5:2000 at Class A1R and A2

2) Meets the requirements of EN 54-7:2000 at the following sensitivity settings

LPCB Ref.
No.
1174f/01

Certificated Products

- Smoke Mode 2 and A1R
- Smoke Mode 2 and A2
- Smoke Mode 2 (Smoke only), heat disabled

LPCB Ref.
No.

Bases

SB-6617 Base

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates

Tel: +971 5 0868 4543 • Fax: +971 6535 9220

E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506a-(cl-7) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products

OM-0311-2 (2 wire) Conventional Photoelectric Smoke Detector (OM-031 Base)

LPCB Ref.
No.
506a/02

Base

OM-031 Mounting Base

Certificate No: 506c-(cl-6) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

OM-0316-2 (2 wire) Conventional Class A2 Rate of Rise and Fixed Temperature Heat Detector (OM-031 Base)

LPCB Ref.
No.
506c/01

Base

OM-031 Mounting Base

Ampac Pty Ltd

7 Ledger Road, Balcatta 6021, Australia

Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334

E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010p-(cl-2) to EN54-5: 2000 + A1: 2002

Certificate No: 010bg-(cl-1) to EN 54-5: 2000 + A1: 2002

Certificate No: 010bd-(cl-1) to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Heat Detectors

Certificated Products

SA5100-400AMP Soteria Analogue Addressable Class P Heat Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases)
Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.

LPCB Ref.
No.
010bd/01

SA5000-400AMP Soteria Analogue Addressable Class P Heat Detector (SA5000-200AMP and 45681-210AMP bases)
Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.

010bg/01

58000-400AMP Discovery Analogue Addressable Class P Heat Detector (45681-209AMP and 45681-210AMP bases)

010p/03

Notes:

1. Meets the requirements of EN54: Part 5 at the following modes:
 - Class A1R in mode 1 and in conventional mode
 - Class A2 in mode 2 and in conventional mode

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
	- Class A2S in mode 3 and in conventional mode - Class CR in mode 4 and in conventional mode - Class CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	
55000-122AMP	Series 65 Conventional Class A1R heat detector - Standard (45681-200AMP mounting base) ¹ <i>Meets the requirements of EN54: Part 5 - Class A1R</i>	010p/06
55000-127AMP	Series 65 Conventional Class BR heat detector - Standard (45681-200AMP mounting base) ¹ <i>Meets the requirements of EN54: Part 5 - Class BR</i>	010p/09
55000-132AMP	Series 65 Conventional Class CR heat detector - Standard (45681-200AMP mounting base) ¹ <i>Meets the requirements of EN54: Part 5 - Class CR</i>	010p/12
55000-137AMP	Series 65 Conventional Class CS heat detector - Standard (45681-200AMP mounting base) ¹ <i>Meets the requirements of EN54: Part 5 - Class CS</i>	010p/15
55000-420AMP	XP95 Analogue Addressable Class A2S Heat Detector (45681-209AMP and 45681-210AMP bases) Notes: 1. Meets the requirements of EN54: Part 5 at Class A2S 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.	010p/22

Bases

45681-200AMP Series 60/65 mounting base
45681-201AMP Series 60/65 diode mounting base
45681-245AMP Series 65 relay mounting base
45681-246AMP Series 65 auxiliary relay mounting base
45681-247AMP Series 65 EOL 12 Volt mounting base
45681-248AMP Series 65 EOL 24 Volt mounting base
SA5000-200AMP Addressable XPERT 8 mounting base
45681-209AMP XP95/Discovery standard deep mounting base
45681-210AMP XP95 Mounting base

Notes:

¹ Also certificated for use with 45681-245AMP, 45681-246AMP, 45681-247AMP, 45681-248AMP and 45681-201AMP mounting bases.

Certificate No: 010q-(cl-2) to EN54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 010bf-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 010bc-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-17: 2005

Certificate No: 010q to EN 54-7:2000 + A1:2002 + A2:2006

Certificate No: 010bk-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2002, FprEN 54-7:2015(E) & EN 54-17:2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
SA5100-600AMP	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200AMP and 45681-210AMP bases) <i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bc/01
SA5000-600AMP	Soteria Analogue Addressable Optical Smoke Detector (SA5000-200AMP and 45681-210AMP bases) <i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	010bf/01
FL6100-600AMP	Soteria Dimension Specialist Optical Detector (FL5000-200AMP)	010bk/01
FL5100-600AMP	Soteria Dimension Optical Detector (FL5000-200AMP)	010bk/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>58000-500AMP</p> <p>Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345) Discovery Analogue Addressable Ionisation Smoke Detector (45681-209 and 45681-210 mounting bases)</p> <p>Note: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions</p>	010q/02
<p>58000-600AMP</p> <p>Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 mounting bases)</p> <p>Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and inconventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.</p>	010q/03
<p>55000-217AMP</p> <p>Series 65 Conventional ionisation smoke detector - Standard (45681-200AMP mounting base) ¹</p>	010q/06
<p>55000-220AMP</p> <p>Series 65 Conventional integrating ionisation smoke detector - Standard (45681-200AMP mounting base) ¹</p>	010q/09
<p>55000-317AMP</p> <p>Series 65 Conventional optical smoke detector - Standard (45681-200AMP mounting base) ¹</p>	010q/12
<p>55000-520AMP</p> <p>XP95 Analogue Addressable Ionisation Smoke Detector(45681-209 and 45681-210 mounting bases)Note: Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturers instructions.</p>	010q/17
<p>55000-620AMP</p> <p>XP95 Analogue Addressable Optical Smoke Detector (45681-209AMP and 45681-210AMP bases)</p> <p>Note: 1. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.</p>	010q/19

Bases

45681-200AMP Series 60/65 mounting base
 45681-201AMP Series 60/65 diode mounting base
 45681-245AMP Series 65 relay mounting base
 45681-246AMP Series 65 auxiliary relay mounting base
 45681-247AMP Series 65 EOL 12 Volt mounting base
 45681-248AMP Series 65 EOL 24 Volt mounting base
 SA5000-200AMP Addressable XPERT 8 mounting base
 45681-210AMP XP95 mounting base
 45681-209AMP XP95/Discovery standard deep mounting base
 FL5000-200AMP Soteria Dimension Backbox

Notes:

¹ Also certificated for use with 45681-245AMP, 45681-246AMP, 45681-247AMP, 45681-248AMP and 45681-201AMP mounting bases.

Negative Switching Isolating Base

Certificate No: 010m-(cl-1) to EN54-7: 2001 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 010aq-(cl-1) to EN 54-5: 2000 + A1: 2002 + LPS 1274: 2005 + LPS 1265: 2004

Certificate No: 010bb-(cl-1) to EN 54-5: 2000 + A1: 2002 & EN 54-7: 2000 + A1: 2002 + A2:2006 & EN 54:17: 2005 & CEA 4021: 2003

Certificate No: 010h to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products	LPCB Ref. No.
<p>58000-305AMP</p> <p>Analogue addressable CO/heat multisensor detector (45681-210AMP, standard intelligent mounting base)</p> <p>Notes:</p>	010aq/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

1. Approved with the following mode configurations:-
Mode 1 30 ppm with high thermal enhancement (most sensitive)
Mode 2 33 ppm with CO only
Mode 3 40 ppm with low thermal enhancement (nominal sensitivity)
Mode 4 45 ppm with high thermal enhancement (least sensitive)
Mode 5 heat only A1R
2. Mode 1, 3, and 4 are approved to LPS1274:2005 and EN 54-5:2000 + A1:2002
3. Mode 2 is approved to LPS 1265:2004
4. Mode 5 is approved to EN 54-5:2000 + A1:2002

Conditions of approval include;

- a) The 58000-305AMP should only be installed in accordance with the manufacturers recommendations.
- b) The 58000-305AMP should not be set only as a carbon monoxide fire detector where there is a specific risk of rapid burning/flaming fires.
- c) Refer to technical publication MAN3038-1 for limitations on the use of carbon monoxide fire detection.

SA5100-700AMP Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator(SA5000-200AMP and 45681-210AMP bases) 010bb/01

Certified at the following settings:

- Mode 1: High sensitivity smoke detector with high heat enhancement
- Mode 2: Standard smoke sensitivity only
- Mode 3: Medium sensitivity smoke detector with medium heat enhancement
- Mode 4: Low sensitivity smoke detector with high heat enhancement
- Mode 5: Class A1R heat detector

SA5000-700AMP Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector (SA5000-200AMP and 45681-210AMP bases) 010be/01

Certified at the following settings:

- Mode 1: High sensitivity smoke detector with high heat enhancement
- Mode 2: Standard smoke sensitivity only
- Mode 3: Medium sensitivity smoke detector with medium heat enhancement
- Mode 4: Low sensitivity smoke detector with high heat enhancement
- Mode 5: Class A1R heat detector

58000-700AMP Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) 010h/01

Notes:

1. Certified at the following settings:

- Mode 1 - High sensitivity smoke detector with standard heat enhancement
- Mode 2 - Smoke detection only
- Mode 3 - Medium sensitivity smoke detector with standard heat enhancement
- Mode 4 - Low sensitivity smoke detector with high heat enhancement
- Mode 5 - Class A1 heat detector

Also approved in conventional alarm modes 1, 2, 3, 4 and 5

2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.

55000-885AMP Analogue addressable multisensor detector (45681-209AMP and 45681-210AMP mounting base)Approved with Apollo XP95 and S90 digital communication protocols that have been configured for the XP95 multisensor detector in accordance with manufacturers instructions. 010m/01

Bases

45681-209AMP	XP95/Discovery standard deep mounting base
45681-210AMP	XP95 mounting base
SA5000-200AMP	Addressable XPERT 8 mounting base
46581-209	XP95/Discovery standard deep mounting base
45681-210	XP95 Mounting base

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E-mail: tony.ye@apollo-fire.com

Certificate No: 010r to EN 54: Part 5: 2000
Certificate No: 010p to EN 54-5: 2000 + A1: 2002
Certificate No: 010bd to EN 54-5: 2000 + A1: 2002 and EN 54-17: 2005
Certificate No: 010bg to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
SA5100-400	Soteria Analogue Addressable Class P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01
SA5100-400LIM	Soteria Analogue Addressable Class P Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01
SA5000-400	Soteria Analogue Addressable Class P Heat Detector (SA5000-200 and 45681-210 bases) Note: Meets requirements of EN 54-5: 2000 + A1: 2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bg/01
58000-400	Discovery Analogue addressable heat detector (45681-209 and 45681-210 mounting base) Note: Meets the requirements of EN 54: Part 5 for the following settings Class A1R in mode 1 and in conventional mode. Class A2 in mode 2 and in conventional mode. Class A2S in mode 3 and in conventional mode. Class CR in mode 4 and in conventional mode. Class CS in mode 5 and in conventional mode. Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols when the Discovery heat detector has been configured in accordance with manufacturer's instructions.	010p/03
58000-400SIL	Discovery Analogue Addressable Heat Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: - Class A1R in mode 1 and in conventional mode - Class A2 in mode 2 and in conventional mode - Class A2S in mode 3 and in conventional mode - Class CR in mode 4 and in conventional mode - Class CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols	010p/03

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
55000-120	010p/04
55000-121	010p/05
55000-122	010p/06
55000-125	010p/07
55000-126	010p/08
55000-127	010p/09
55000-130	010p/10
55000-131	010p/11
55000-132	010p/12
55000-136	010p/14
55000-137	010p/15
55000-400	010p/20
55000-401	010p/21
55000-420	010p/22
55000-420PRC	010p/22

configured for the Discovery Heat Detector in accordance with manufacturers instructions.

Series 65 Conventional Class A1R heat detector - Flashing LED/Reed switch (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class A1R

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class A1R heat detector - Flashing LED (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class A1R

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class A1R heat detector - Standard (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class A1R

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class BR heat detector - Flashing LED/Reed switch (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class BR

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class BR heat detector - Flashing LED (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class BR

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class BR heat detector - Standard (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class BR

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class CR heat detector- Flashing LED/Reed switch (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class CR

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class CR heat detector - Flashing LED (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class CR

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class CR heat detector - Standard (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class CR

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class CS heat detector - Flashing LED (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class CS

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

Series 65 Conventional Class CS heat detector - Standard (45681-200 mounting base)

Note: Meets the requirements of EN 54: Part 5 - Class CS

Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases

XP95 Analogue addressable Class A2S heat detector 45681-209 and 45681-210 mounting base)

Certificated with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery heat detector in accordance with manufacturers instructions.

XP95 Analogue addressable Class CS heat detector 45681-209 and 45681-210 mounting base)

Certificated with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery heat detector in accordance with manufacturers instructions.

XP95 Analogue addressable Class A2S heat detector 45681-209 and 45681-210 mounting base)

Certificated with Apollo Discovery, XP95, and S90 digital communications protocol configured for the Discovery heat detector in accordance with manufacturers instructions.

XP95 Analogue Addressable Class A2S Heat Detector (45681-209 and 45681-210 bases)

Notes:

1. Meets the requirements of EN54: Part 5 at Class A2S

2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
55000-440 XP95 IS Analogue addressable intrinsically safe Class A2S heat detector (45681-215 mounting base) <i>Certified with Apollo Series 90 and XP95 digital communications protocol</i>	010p/23
55000-440PRC XP95 IS Analogue Addressable Intrinsically Safe Class A2S Heat Detector (45681-215 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class A2S. 2. Certified with Apollo Series 90 and XP95 digital communications protocols.	010p/23
Orbis Class A1R Heat detectors with Apollo Approval Reference* 00001 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11001-APO Orbis class A1R heat detector with SensAlert and FasTest ORB-HT-11013-APO Orbis class A1R heat detector with Flashing LED, SensAlert and FasTest OEX-HT-11037-APO Orbis class A1R heat detector with Flashing LED and SensAlert OEX-HT-11089-APO Orbis class A1R heat detector with SensAlert	010r/01
Orbis Class A2S Heat detectors with Apollo Approval Reference* 00002 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11002-APO Orbis class A2S heat detector with SensAlert and FasTest ORB-HT-11014-APO Orbis class A2S heat detector with Flashing LED, SensAlert and FasTest OEX-HT-11038-APO Orbis class A2S heat detector with Flashing LED and SensAlert OEX-HT-11090-APO Orbis class A2S heat detector with SensAlert	010r/02
Orbis Class BR Heat detectors with Apollo Approval Reference* 00003 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11003-APO Orbis class BR heat detector with SensAlert and FasTest ORB-HT-11015-APO Orbis class BR heat detector with Flashing LED, SensAlert and FasTest OEX-HT-11039-APO Orbis class BR heat detector with Flashing LED and SensAlert OEX-HT-11091-APO Orbis class BR heat detector with SensAlert	010r/03
Orbis Class BS Heat detectors with Apollo Approval Reference* 00004 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11004-APO Orbis class BS heat detector with SensAlert and FasTest ORB-HT-11016-APO Orbis class BS heat detector with Flashing LED, SensAlert and FasTest OEX-HT-11040-APO Orbis class BS heat detector with Flashing LED and SensAlert OEX-HT-11092-APO Orbis class BS heat detector with SensAlert	010r/04
Orbis Class CR Heat detectors with Apollo Approval Reference* 00005 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11005-APO Orbis class CR heat detector with SensAlert and FasTest ORB-HT-11017-APO Orbis class CR heat detector with Flashing LED, SensAlert and FasTest OEX-HT-11041-APO Orbis class CR heat detector with Flashing LED and SensAlert OEX-HT-11093-APO Orbis class CR heat detector with SensAlert	010r/05
Orbis Class CS Heat detectors with Apollo Approval Reference* 00006 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11006-APO Orbis class CS heat detector with SensAlert and FasTest ORB-HT-11018-APO Orbis class CS heat detector with Flashing LED, SensAlert and FasTest OEX-HT-11042-APO Orbis class CS heat detector with Flashing LED and SensAlert OEX-HT-11094-APO Orbis class CS heat detector with SensAlert	010r/06
Orbis Class A1S Heat detectors with Apollo Approval Reference* 00009 (Approved for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-HT-11166-APO Orbis class A1S heat detector with SensAlert and FasTest ORB-HT-11167-APO Orbis class A1S heat detector with Flashing LED, SensAlert and FasTest	010r/07
Orbis IS Class A1R Intrinsically safe heat detectors with Apollo Approval Reference* 50001 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base) ORB-HT-51145-APO Orbis intrinsically safe class A1R heat detector with SensAlert and FasTest ORB-HT-51146-APO Orbis intrinsically safe class A1R heat detector with Flashing LED, SensAlert and FasTest	010r/08
Orbis IS Class A2S Intrinsically safe heat detectors with Apollo Approval Reference* 50002 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base)	010r/09

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
ORB-HT-51147-APO Orbis intrinsically safe class A2S heat detector with SensAlert and FasTest	
ORB-HT-51148-APO Orbis intrinsically safe class A2S heat detector with Flashing LED, SensAlert and FasTest	
Orbis IS Class BR Intrinsically safe heat detectors with Apollo Approval Reference* 50003 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base)	010r/10
ORB-HT-51149-APO Orbis intrinsically safe class BR heat detector with SensAlert and FasTest	
ORB-HT-51150-APO Orbis intrinsically safe class BR heat detector with Flashing LED, SensAlert and FasTest	
Orbis IS Class BS Intrinsically safe heat detectors with Apollo Approval Reference* 50004 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base)	010r/11
ORB-HT-51151-APO Orbis intrinsically safe class BS heat detector with SensAlert and FasTest	
ORB-HT-51152-APO Orbis intrinsically safe class BS heat detector with Flashing LED, SensAlert and FasTest	
Orbis IS Class CR Intrinsically safe heat detectors with Apollo Approval Reference* 50005 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base)	010r/12
ORB-HT-51153-APO Orbis intrinsically safe class CR heat detector with SensAlert and FasTest	
ORB-HT-51154-APO Orbis intrinsically safe class CR heat detector with Flashing LED, SensAlert and FasTest	
Orbis IS Class CS Intrinsically safe heat detectors with Apollo Approval Reference* 50006 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base)	010r/13
ORB-HT-51155-APO Orbis intrinsically safe class CS heat detector with SensAlert and FasTest	
ORB-HT-51156-APO Orbis intrinsically safe class CS heat detector with Flashing LED, SensAlert and FasTest	
Orbis IS Class A1S Intrinsically safe heat detectors with Apollo Approval Reference* 50009 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008 adapter base)	010r/14
ORB-HT-51157-APO Orbis intrinsically safe class A1S heat detector with SensAlert and FasTest	
ORB-HT-51158-APO Orbis intrinsically safe class A1S heat detector with Flashing LED, SensAlert and FasTest	

Bases:

45681-200 Series 60 mounting base
45681-200 Series 60/65 Mounting Base
45681-201 Series 60 diode mounting base
45681-201 Series 60/65 Diode Mounting Base
45681-207 Series 60 intrinsically safe mounting base
45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base
45681-215 XP95 intrinsically safe mounting base
45681-245 Series 65 Relay mounting base
45681-246 Series 65 Auxiliary relay mounting base
45681-247 Series 65 EOL 12 Volt mounting base
45681-248 Series 65 EOL 24 Volt mounting base
SA5000-200 Addressable XPERT 8 Mounting Base
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL
TimeSaver diode bases with Apollo Approval Reference* OD
TimeSaver relay bases with Apollo Approval Reference* OR
TimeSaver LX diode bases with Apollo Approval Reference* DX
TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
TimeSaver deep bases with Apollo Approval Reference*
EB: ORB-MB-00019-APO TimeSaver deep base
ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010q to EN 54: Part 7: 2000
 Certificate No: 010s to EN 54: Part 7: 2000
 Certificate No: 010bc to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005
 Certificate No: 010bf to EN 54-7: 2000 + A1: 2002 + A2: 2006
 Certificate No: 010bk to EN 54-7:2000 + A1:2002 + A2:2002, FprEN 54-7:2015(E) & EN 54-17:2005

Smoke Detectors
Certificated Products

		LPCB Ref. No.
SA5100-600	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases)	010bc/01
	<i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	
SA5100-600LIM	Soteria Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases)	010bc/01
	<i>Certified at the following settings:</i> <i>Mode 1: High sensitivity smoke detector with fast response time</i> Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	
SA5000-600	Soteria Analogue Addressable Optical Smoke Detector (SA5000-200 and 45681-210 bases)	010bf/01
	<i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	
FL6100-600	Soteria Dimension Specialist Optical Detector (FL5000-200)	010bk/01
FL5100-600	Soteria Dimension Optical Detector (FL5000-200)	010bk/02
	Note: 1. Soteria Dimension Optical Faceplate Accessory Black (43785-345)	
58000-500 Discovery	Analogue addressable ionisation smoke detector (45681-209 and 45681-210 mounting base) ² <i>Note: Meets the requirements of EN 54:Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors has been configured in accordance with manufacturer's instructions.</i>	010q/02
58000-500MAR	Discovery Analogue Addressable Ionisation Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. 2. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
58000-500SIL	Discovery Analogue Addressable Ionisation Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode. 2. Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
58000-600 Discovery	Analogue addressable photoelectric smoke detector (45681-209 and 45681-210 mounting base) ² <i>Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.</i>	010q/03
58000-600SIL	Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 bases) Notes: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional	010q/03

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.	
	mode.	
	2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	
55000-216 Series 65	Conventional ionisation smoke detector - Flashing LED (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/05
55000-217 Series 65	Conventional ionisation smoke detector - Standard (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/06
55000-218 Series 65	Conventional integrating ionisation smoke detector - Flashing LED/Reed switch (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/07
55000-219 Series 65	Conventional integrating ionisation smoke detector - Flashing LED (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/08
55000-220 Series 65	Conventional integrating ionisation smoke detector - Standard (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/09
55000-315 Series 65	Conventional optical smoke detector - Flashing LED/Reed switch (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/10
55000-316 Series 65	Conventional optical detector - Flashing LED (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/11
55000-317 Series 65	Conventional optical smoke detector - Standard (45681-200 mounting base) <i>Also Certificated for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</i>	010q/12
55000-500 XP95	Analogue addressable ionisation smoke detector (45681-209 and 45681-210 mounting base) ² <i>Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturers instructions .</i>	010q/16
55000-520 XP95	Analogue addressable ionisation smoke detector (45681-209 and 45681-210 mounting base) ² <i>Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturers instructions .</i>	010q/17
55000-600 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base) ² <i>Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.</i>	010q/18
55000-620 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base) ² <i>Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.</i>	010q/19
55000-620PRC	XP95 Analogue Addressable Optical Smoke Detector (45681-209 and 45681-210 bases) Note: 1. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/19
55000-660 XP95	Analogue addressable optical smoke detector (45681-209 and 45681-210 mounting base) ² <i>Certificated with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturers instructions.</i>	010q/21
55000-640 XP95 IS	Analogue addressable intrinsically safe optical smoke detector (45681-215 mounting base) <i>Certified with Apollo Series 90 and XP95 digital communications protocol</i>	010q/22
55000-640PRC	XP95 IS Analogue Addressable Intrinsically Safe Optical Smoke Detector (45681-215 base)Note: 1. Certified with Apollo Series 90 and XP95 digital communications protocol.	010q/22
55000-540 XP95 IS	Analogue addressable intrinsically safe ionisation smoke detector (45681-215 mounting base) <i>Certified with Apollo Series 90 and XP95 digital communications protocol</i>	010q/23
55000-540SIL	XP95 IS Analogue Addressable Intrinsically Safe Ionisation Smoke Detector (45681-215	010q/23

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>base) Note: 1. Certified with Apollo Series 90 and XP95 digital communications protocol. Orbis Optical Smoke Detector Range (Approved for use with base styles OB, OL, OD, OR, EB, XL and ORB-BA-10008-APO adaptor base)</p>	010s/01
<p>ORB-OP-12001-APO Orbis Optical Smoke Detector with SensAlert, FasTest and DirtAlert ORB-OP-12003-APO Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert ORB-OP-12003-PRC Orbis Optical Smoke Detector with Flashing LED, SensAlert, FasTest and DirtAlert OEX-OP-12007-APO Orbis Optical Smoke Detector with Flashing LED and SensAlert OEX-OP-12016-APO Orbis Optical Smoke Detector with SensAlert Orbis IS Intrinsically safe optical smoke detectors with Apollo Approval Reference* 50007 (Approved for use with base styles OB (+ATEX marking) and ORB-BA-50008-APO adapter base)</p> <p>ORB-OP-52027-APO Orbis intrinsically safe optical smoke detector with SensAlert, FasTest and DirtAlert ORB-OP-52028-APO Orbis intrinsically safe optical smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert ORB-OP-52028-PRC Orbis intrinsically safe optical smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert</p>	010s/02

Bases:

45681-200 Series 60 mounting base
 45681-200 Series 60/65 Mounting Base
 45681-201 Series 60 diode mounting base
 45681-201 Series 60/65 Diode Mounting Base
 45681-207 Series 60 intrinsically safe mounting base
 45681-209 XP95/Discovery standard deep mounting base
 45681-210 XP95 mounting base
 45681-215 XP95 intrinsically safe mounting base
 45681-245 Series 65 Relay mounting base
 45681-246 Series 65 Auxiliary mounting base
 45681-247 Series 65 EOL 12 Volt mounting base
 45681-248 Series 65 EOL 24 Volt mounting base
 45681-500 XPlorer standard mounting base
 45681-501 XPlorer remote LED mounting base
 SA5000-200 Addressable XPERT 8 Mounting Base
 FL5000-200 Soteria Dimension Backbox
 TimeSaver bases with Apollo Approval Reference* OB
 TimeSaver LX bases with Apollo Approval Reference* OL
 TimeSaver diode bases with Apollo Approval Reference* OD
 TimeSaver relay bases with Apollo Approval Reference* OR
 TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
 ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
 ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010h to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 & CEA 4021:2003

Certificate No: 010m to EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Certificate No: 010t to EN 54-7: 2000 & CEA 4021: 1999-06

Certificate No: 010bb to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA 4021: 2003

Certificate No: 010be to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products	LPCB Ref. No.
<p>SA5100-700 Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator (SA5000-200 and 45681-210 bases)</p> <p><i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement</p>	010bb/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
SA5100-700LIM	Mode 5: Class A1R heat detector Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector with Short Circuit Isolator(SA5000-200 and 45681-210 bases) Certified at the following settings: <i>Mode 1: High sensitivity smoke detector with high heat enhancement</i> Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010bb/01
SA5000-700	Soteria Analogue Addressable Class A1R Optical Smoke/Heat Detector (SA5000-200 and 45681-210 bases) <i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010be/01
58000-700 Discovery	Analogue addressable multisensor detector (45681-209 and 45681-210 mounting base) <i>Note: Certificated at the following settings.</i> <i>Mode 1 - High sensitivity smoke detector with standard heat enhancement.</i> <i>Mode 2 - Smoke detection only.</i> <i>Mode 3 - Medium sensitivity smoke detector with standard heat enhancement.</i> <i>Mode 4 - Low sensitivity smoke detector with high heat enhancement.</i> <i>Mode 5 - Class A1 heat detector.</i> <i>Also Certificated in conventional alarm modes 1, 2, 3, 4 and 5.</i> <i>Certificated with Discovery XP95 and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.</i>	010h/01
58000-700SIL	Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01
55000-885	XP95 Analogue addressable multisensor detector (45681-209 and 45681-210 mounting base) <i>Certificated with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.</i>	010m/01
Orbis	Multisensor smoke detectors with Apollo Approval Reference* 00008 for use with base styles OB, OL, OD, DX, OR, EB and ORB-BA-10008-APO adaptor base) ORB-OH-13001-APO Orbis multisensor smoke detector with SensAlert, FasTest and DirtAlert ORB-OH-13003-APO Orbis multisensor smoke detector with Flashing LED, SensAlert, FasTest and DirtAlert OEX-OH-13007-APO Orbis multisensor smoke detector with Flashing LED and SensAlert	010t/01
Orbis IS	OEX-OH-13016-APO Orbis multisensor smoke detector with SensAlert Intrinsically safe multisensor detectors with Apollo Approval Reference* 50008 (Approved for use with base styles OB (+ATEX marking) and ORB-MB-50008-APO adapter base) ORB-OH-53027-APO Orbis intrinsically safe multisensor detector with SensAlert, FasTest and DirtAlert ORB-OH-53028-APO Orbis intrinsically safe multisensor detector with Flashing LED, SensAlert, FasTest and DirtAlert	010t/02

Bases:

45681-209 XP95/Discovery standard deep mounting base
45681-210 XP95 mounting base
SA5000-200 Addressable XPERT 8 Mounting Base
TimeSaver bases with Apollo Approval Reference* OB
TimeSaver LX bases with Apollo Approval Reference* OL

TimeSaver diode bases with Apollo Approval Reference* OD
 TimeSaver relay bases with Apollo Approval Reference* OR
 TimeSaver LX diode bases with Apollo Approval Reference* DX
 TimeSaver IS bases with Apollo Approval Reference* OB (+ATEX marking)
 ORB-BA-50008 Orbis intrinsically safe adapter base (to be used in conjunction with the following bases only: 45681-207)
 ORB-BA-10008-APO Orbis adaptor base (to be used in conjunction with the following bases only: 45681-200 & 45681-201)

* The Apollo 'Approval Reference Number' identifies a group of detectors that all have the same physical construction, but have features enabled or disabled via their software, and/or regional marking variations.

Certificate No: 010an to EN 54-10: 2002 + A1:2005

Flame Detectors
Certificated Products

		LPCB Ref. No.
55000-022	XP95 intelligent flame detector (45681-209 and 45681-210) <i>Note: Meets EN 54-10: 2002 at Class 1 and Class 3</i>	010an/01
55000-023	XP95 intelligent ² flame detector and 45681-210) <i>Note: Meets EN 54-10: 2002 at Class 1 and Class 3</i>	010an/02
55000-024	XP95 intelligent ³ flame detector and 45681-210) <i>Note: Meets EN 54-10: 2002 at Class 1 and Class 3</i>	010an/03
55000-025	S65 conventional UV flame detector (45681-200 and 45681-201) <i>Note: Meets EN 54-10: 2002 at Class 1 and Class 3</i>	010an/04
55000-019	Conventional IR ³ Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/05
55000-060	Conventional IR ² Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/06
55000-061	Conventional IR ² (Exd) Flameproof Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/07
55000-062	Conventional IR ³ (Exd) Flameproof Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/08
55000-063	Conventional IR ³ Intrinsically Safe Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/09
55000-064	Conventional UV/IR ² Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/10
55000-065	Conventional UV/IR ² (Exd) Flameproof Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/11
55000-020	Analogue Addressable IR ³ Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/13
55000-021	Analogue Addressable IR ³ (Exd) Flameproof Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/14
55000-280	Analogue Addressable IR ² Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/15
55000-295	Analogue Addressable IR ² (Exd) Flameproof Flame Detector (29600-203) <i>Note:</i> <i>Meets EN 54-10: 2002 at Class 1 only</i>	010an/16

Bases

45681-200	Mounting Base
45681-201	Mounting Base with Diode
45681-209	Deep Base
45681-210	Mounting Base
29600-203	Adjustable Mounting Base

Ancillaries

29600-203 Mounting Bracket

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 010aq to LPS 1274: 2005, EN 54-5: 2000 + A1: 2002 and LPS 1265: 2004

Multi-Sensor/Multi-Criteria Detectors Certificated Products

**LPCB Ref.
No.
010aq/01**

58000-305 Analogue addressable CO/heat multisensor detector
(45681-210, standard intelligent mounting base)
Notes:
1. *Approved with the following mode configurations:-*
Mode 1 30 ppm with high thermal enhancement (most sensitive)
Mode 2 33 ppm with CO only
Mode 3 40 ppm with low thermal enhancement (nominal sensitivity)
Mode 4 45 ppm with high thermal enhancement (least sensitive)
Mode 5 heat only A1R
2. *Mode 1, 3, and 4 are approved to LPS1274:2005 and EN 54-5:2000 + A1: 2002*
3. *Mode 2 is approved to LPS 1265:2004*
4. *Mode 5 is approved to EN 54-5:2000 + A1:2002*

Conditions of approval include;

- a) The 58000-305 should only be installed in accordance with the manufacturer's recommendations.*
- b) The 58000-305 should not be set only as a carbon monoxide fire detector where there is a specific risk of rapid burning/flaming fires.*
- c) Refer to technical publication PP2382 for limitations on the use of carbon monoxide fire detection.*

Base:

45681-210 Standard intelligent mounting base

Certificate No: 010at to EN 54-17: 2005

Isolating base Certificated Products

**LPCB Ref.
No.
010at/01**

45681-505 Negative switching isolating base

Certificate No: 010ar to EN 54-5: 2000 + A1: 2002

Heat Detectors Certificated Products

**LPCB Ref.
No.
010ar/01
010ar/02**

55000-465 Analogue addressable Classheat detector
(45681-200, 45681-213 and 45681-505 mounting bases)
55000-475 Analogue addressable Classheat detector
(45681-200, 45681-213 and 45681-505 mounting bases)

Bases:

45681-200 Mounting base
45681-213 Common mounting base
45681-505 Negative switching isolating base

Argus Security S.r.l.

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Certificate No: 928a to EN 54-5: 2000 + A1: 2002 and EN 54 -17: 2005
Certificate No: 928d to EN 54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
A3500	Addressable Class P heat detector with short-circuit isolator (LAB100 base) <i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928a/02
S3500	Conventional Class P heat detector (UB100, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100) <i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R and Class B	928d/02
A3500L	Altair Lite Addressable Class P Heat Detector (LAB1000 Base) <i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928d/03

Bases

VB100	Vega adaptor mounting base (with link resistor)
UB100	Universal adaptor mounting base
VB100S	Vega adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VDBS100	Vega deep adaptor base
DBS100	Deep adaptor base
VDBS100S	Vega deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
UBR100	Universal adaptor base with resistor
DBSR100	Deep adaptor base with resistor
UBDR100	Universal adaptor base with resistor and Schottky diode
DBSRD100	Deep adaptor base with resistor and Schottky diode
LAB100	Standard mounting base
LAB1000	Low profile adaptor base

Certificate No: 928b to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005
Certificate No: 928e to EN 54-7: 2000 + A1: 2002 + A2: 2006
Certificate No: 928k to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-25: 2008

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
A1000	Addressable photoelectric smoke detector with short-circuit isolator (LAB100 base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928b/02
S1000	Conventional photo smoke detector (UB100, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100)	928e/02
A1000L	Altair Lite Addressable Photoelectric Smoke Detector (LAB1000 Base) <i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03

Bases

VB100	Vega adaptor mounting base (with link resistor)
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PART 1: SECTION 4.1

COMMERCIAL DETECTORS

UB100	Universal adaptor mounting base
VB100S	Vega adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VDBS100	Vega deep adaptor base
DBS100	Deep adaptor base
VDBS100S	Vega deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
UBR100	Universal adaptor base with resistor
DBSR100	Deep adaptor base with resistor
UBDR100	Universal adaptor base with resistor and Schottky diode
DBSRD100	Deep adaptor base with resistor and Schottky diode
LAB100	Standard mounting base
LAB1000	Low profile adaptor base
WAB100	Wireless adaptor base

Certificate No: 928c to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54 -17: 2005 & CEA 4021: 2003

Certificate No: 928f to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 928m to EN54-5: 2000 + A1:2002 & EN 54-7: 2000 + A1: 2002 + A2: 2006 &EN 54-25: 2008 & CEA 4021: 2003

Multisensor Detectors

Certificated Products

		LPCB Ref. No.
A2000	Addressable multi-criteria detector with short-circuit isolator (LAB100 base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928c/02
A2000L	Altair Lite Addressable Photoelectric Smoke Detector & Class A1R Heat Detector (LAB1000 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 - Low sensitivity	928f/02

Bases

VB100	Vega adaptor mounting base (with link resistor)
UB100	Vega universal mounting base
VB100S	Vega adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VDBS100	Vega deep adaptor base
DBS100	Deep adaptor base
VDBS100S	Vega deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
LAB100	Standard mounting base
LAB1000	Low profile adaptor base
WAB100	Wireless adaptor base

Certificate No: 928j to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008
Certificate No: 928j to EN 54-5: 2000 + A1: 2002 & EN 54-25: 2008

Heat Detectors
Certificated Products

		LPCB Ref. No.
SG350	Wireless heat detector (WAB100 base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-5 for Class A1R2. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery	928j/01
L-HT-SG	Wireless Libra Addressable Class P Heat Detector (WAB100 Base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-5 for Class A1R and BS2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases
WAB100 Wireless Adaptor Base

Certificate No: 928k to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Smoke Detectors
Certificated Products

		LPCB Ref. No.
SG100	Wireless optical smoke detector (WAB100 base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-7 in the normal sensitivity setting2. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery	928k/01
L-OP-SG	Wireless Libra Addressable Optical Smoke Detector (WAB100 Base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases
WAB100 Wireless Adaptor Base

Certificate No: 928m to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors
Certificated Products

		LPCB Ref. No.
SG200	Wireless multi-criteria detector (WAB100 base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-5 for Class A1R2. Meets the requirements of EN 54-7 in the normal sensitivity settings3. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery	928m/01
L-MC-SG	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-5 for Class A1R2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal	928m/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

Level 3 - Low

3. The device must be used with the following battery type only:
CR123A (3 Vdc) - Primary and Secondary Battery

LPCB Ref.
No.

Bases

WAB100

Wireless Adaptor Base

Certificate No: 928aj to EN 54-5: 2000 + A1: 2002, EN 54-7:2000 + A1: 2002+ A2: 2006, EN 54-25: 2008 , EN 54-31:2014 + A1: 2016

Certificated Products

LW-DMCO-01

Libra Wireless Addressable Multi Criteria Smoke, Heat and CO Detector.

Notes:

1. Meets the requirements of EN 54-31 and EN 54- 5 depending on the specific classification setting at classes A1R and BS.
2. Meets the requirements of EN 54-31 and EN 54-7 at all classification settings.

Classification Settings:

- L0 – Harsh smoke profile; smoke profile number 0; heat classification BS.
- L1 – Harsh smoke profile; smoke profile number 1; heat classification A1R.
- L2 – Harsh smoke profile; smoke profile number 2; heat classification A1R.
- L3 – Harsh smoke profile; smoke profile number 3; heat classification A1R.
- N0 – Normal smoke profile; smoke profile number 0; heat classification A1R.
- N1 – Normal smoke profile; smoke profile number 1; heat classification A1R.
- N2 – Normal smoke profile; smoke profile number 2; heat classification A1R.
- N3 – Normal smoke profile; smoke profile number 3; heat classification A1R.
- H0 – Clean smoke profile; smoke profile number 0; heat classification A1R.
- H1 – Clean smoke profile; smoke profile number 1; heat classification A1R.
- H2 – Clean smoke profile; smoke profile number 2; heat classification A1R.
- H3 – Clean smoke profile; smoke profile number 3; heat classification A1R.

LPCB Ref.
No.
928aj/01

Base
WAB100

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Certificate No: 603e to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-25:2008 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

ARG-WL8-OH

Wireless Multi-Sensor Detector

Notes:

1. Meets the requirements of EN 54-5 for the following settings:
 - Class A1R
2. Approved to EN54-7 at the following sensitivity settings:
 - High
 - Normal
 - Low
3. The device must be used with the following batteries only:
 - Primary CR123A (3V)
 - Secondary CR2032 (3V)

LPCB Ref.
No.
603e/01

Certificate No: 603f to EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-25:2008

Certificate No: 603j to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-23:2010 & EN 54-25:2008

Smoke Detectors
Certificated Products

		LPCB Ref. No.
ARG-WL8-O	Wireless Optical Smoke Detector Notes: 1. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	603f/01
ARG-WL8-OV	Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Tone intermittent, 2500 Hz (3 x 500ms pulses followed by 1.5s silence then repeat) - Voice message 2 (Fire! Fire! Please leave the building by the nearest exit) synchronised (3 x 500ms followed by voice message then repeat) - Voice message 3 (Fire! Fire! Please leave the building by the central exit) synchronised (3 x 500ms followed by voice message then repeat) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V) 4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-2.6 - Synchronization - Flash rate 0.5Hz - White LED	603j/01

Certificate No: 603g to EN 54-5:2000 + A1:2002 & EN 54-25:2008

Heat Detectors
Certificated Products

		LPCB Ref. No.
ARG-WL8-H	Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following setting: - Class A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	603g/01

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Tel: +971506531199

Website: www.armorsafety.org

Certificate No: 928ae-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 928ab-(cl-2) to EN 54-7:2000 + A1: 2002 + A2: 2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ARM-OPX	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (ARM-MB base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings:	928ab/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
ARM-OP	<p>Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low Addressable Photoelectric Smoke Detector (ARM-MB base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low</p>	928ae/01

Bases

ARM-MB Mounting Base

Certificate No: 928ag-(cl-2) to EN 54-5: 2000 + A1: 2002

Certificate No: 928ad-(cl-2) to EN 54-5:2000 + A1: 2002, EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
ARM-HTX	<p>Analogue Addressable Class P Heat Detector with Short Circuit Isolator (ARM-MB base) Note: 1. Meets the requirements of EN 54-5 at Class A1R and Class BS</p>	928ad/01
ARM-HT	<p>Addressable Class P Heat Detector (ARM-MB base) Note: 1. Meets the requirements of EN 54-5 for Class A1R and Class BS</p>	928ag/01

Bases

ARM-MB Mounting Base

Certificate No: 928af-(cl-2) to EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1:2002 + A2: 2006, CEA 4021: 2003

Certificate No: 928ac-(cl-2) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1; 2002 + A2: 2006, EN 54-17: 2005, CEA 4021: 2004

Certificated Products

		LPCB Ref. No.
ARM-OHX	<p>Addressable Multi-Criteria Detector with Short Circuit Isolator (ARM-MB base) 1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low</p>	928ac/01
ARM-OH	<p>Addressable Photoelectric Smoke Detector & Heat Detector (ARM-MB Base) Notes: 1. Meets the requirements of EN 54-5 & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 at the following settings: Class A1R heat only response</p>	928af/01

Certificated Products

**LPCB Ref.
No.**

3. Meets the requirements of EN 54-7 at the following settings:
Optical only level 1 High sensitivity
Optical only level 2
Optical only level 3
Optical only level 4 Low sensitivity

Bases

ARM-MB Mounting Base

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom

Tel: +8613828765759

E-mail: info@asenware.com

Certificate No: 1426c-(cl-3) to EN 54-7:2000 + A1:2002 + A2:2006

Commercial detectors

Certificated Products

**LPCB Ref.
No.**

AW-D301

Addressable Smoke Detector

Notes:

Meets the requirements of EN 54-7 for 1 sensitivity setting

1426c/01

Base

DZ-912

Certificate No: 1426b-(cl-3) to EN 54-5:2000 + A1:2002

Certificated Products

**LPCB Ref.
No.**

AW-D302

Addressable Heat Detector

Notes:

Meets the requirements of EN 54-5 for Class A2

1426b/01

Base

DZ-912

ASI Oy Ltd (Argus Spectrum International)

Laitaatsillantie 3, Savonlinna 57170, Finland

Tel: +358 20 730 8550

E-mail: mail@argusspectrum.com • Website: <https://argusspectrum.com/>

Certificate No: 1571a to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-25:2008 & EN 54-29:2015

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

**LPCB Ref.
No.**

ARF-WL8-OH

Wireless Multi-Sensor Detector

Notes:

1. Meets the requirements of EN 54-5 for the following settings:

- Class A1R

2. Approved to EN54-7 at the following sensitivity settings:

- High

- Normal

1571a/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
EK-WL8-OH	<ul style="list-style-type: none">- Low3. The device must be used with the following batteries only:<ul style="list-style-type: none">- Primary CR123A (3V)- Secondary CR2032 (3V) (EKHO Brand) Wireless Multi-Sensor Detector	1571a/01
	Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-5 for the following settings:<ul style="list-style-type: none">- Class A1R2. Approved to EN54-7 at the following sensitivity settings:<ul style="list-style-type: none">- High- Normal- Low3. The device must be used with the following batteries only:<ul style="list-style-type: none">- Primary CR123A (3V)- Secondary CR2032 (3V)	

Certificate No: 1571b to EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-25:2008

Certificate No: 1571e to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-23:2010 & EN 54-25:2008

Smoke Detectors

Certificated Products

		LPCB Ref. No.
ARF-WL8-O	Wireless Optical Smoke Detector	1571b/01
	Notes: <ul style="list-style-type: none">1. Approved to EN54-7 at the following sensitivity settings:<ul style="list-style-type: none">- High- Normal- Low2. The device must be used with the following batteries only:<ul style="list-style-type: none">- Primary CR123A (3V)- Secondary CR2032 (3V)	
EK-WL8-O	(EKHO Brand) Wireless Optical Smoke Detector	1571b/01
	Notes: <ul style="list-style-type: none">1. Approved to EN54-7 at the following sensitivity settings:<ul style="list-style-type: none">- High- Normal- Low2. The device must be used with the following batteries only:<ul style="list-style-type: none">- Primary CR123A (3V)- Secondary CR2032 (3V)	
ARF-WL8-OV	Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD	1571e/01
	Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3:2001 for the following tones:<ul style="list-style-type: none">- Tone intermittent, 2500 Hz (3 x 500ms pulses followed by 1.5s silence then repeat)- Voice message 2 (Fire! Fire! Please leave the building by the nearest exit) synchronised (3 x 500ms followed by voice message then repeat)- Voice message 3 (Fire! Fire! Please leave the building by the central exit) synchronised (3 x 500ms followed by voice message then repeat)2. Approved to EN54-7 at the following sensitivity settings:<ul style="list-style-type: none">- High- Normal- Low3. The device must be used with the following batteries only:<ul style="list-style-type: none">- Primary CR123A (3V)- Secondary CR123A (3V)4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:<ul style="list-style-type: none">- Category rating C-3-2.6- Synchronization- Flash rate 0.5Hz- White LED	
EK-WL8-OV	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-In Voice Annunciator and VAD	1571e/01
	Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3:2001 for the following tones:<ul style="list-style-type: none">- Tone intermittent, 2500 Hz (3 x 500ms pulses followed by 1.5s silence then repeat)- Voice message 2 (Fire! Fire! Please leave the building by the nearest exit) synchronised (3 x 500ms followed by voice message then repeat)- Voice message 3 (Fire! Fire! Please leave the building by the central exit) synchronised (3 x 500ms followed by voice message then repeat)	

Certificated Products

LPCB Ref. No.

- 2. Approved to EN54-7 at the following sensitivity settings:
 - High
 - Normal
 - Low
- 3. The device must be used with the following batteries only:
 - Primary CR123A (3V)
 - Secondary CR123A (3V)
- 4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category rating C-3-2.6
 - Synchronization
 - Flash rate 0.5Hz
 - White LED

Certificate No: 1571c to EN 54-5:2000 + A1:2002 & EN 54-25:2008

Heat Detectors

Certificated Products

LPCB Ref. No.

ARF-WL8-H	Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Class A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01
EK-WL8-H	(EKHO Brand) Wireless Heat Detector Notes: 1. Meets the requirements of EN 54-5 for the following settings: - Class A1R 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571c/01

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E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154a to EN 54-5: 2000 + A1: 2002 & EN 54-17:2005

Certificate No: 1154d to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

LPCB Ref. No.

V350	Analogue Addressable Class P Heat Detector with Short Circuit Isolator (VB100, VDBS100, VB100S and VDBS100S Bases) <i>Note:</i> <i>Meets the requirements of EN 54-5 for Class A1R and Class B</i>	1154a/01
VELOX 40930	Analogue Addressable Class P Heat Detector with Short Circuit Isolator (40900, 40900-S, 40900-DP and 40900-DPS Bases) <i>Note: Meets the requirements of EN 54-5 for Class A1R and Class B</i>	1154a/01
VELOX 40930-8	Analogue Addressable Class P Heat Detector with Short Circuit Isolator (40900, 40900-S, 40900-DP and 40900-DPS Bases) <i>Note: Meets the requirements of EN 54-5 for Class A1R and Class B</i>	1154a/02
VELOX LV350	Analogue addressable Class P heat detector lite (40900, 40900-S, 40900-DP, 40900-DPS bases) <i>Note:</i> <i>Meets the requirements of EN 54-5 for Class A1R and Class B</i>	1154d/01
X350	Conventional Class P heat detector (3900, 3900-DP, 3900-R, 3900-DPR, 3900-RD and 3900-DPRD bases) <i>Note:</i> <i>Meets the requirements of EN 54-5 for Class A1R and Class B</i>	1154d/02
VELOX LV350-8	Analogue Addressable Class P Heat Detector Lite <i>Meets the requirements of EN 54-5 for Class A1R and Class B</i>	1154d/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

(40900, 40900-S, 40900-DP and 40900-DPS bases)

Note:

Meets the requirements of EN 54-5 for Class A1R and Class B

LPCB Ref.
No.

Bases

VELOX VB100	Velox adaptor base
UB100	Universal adaptor base
VELOX VB100S	Velox adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VELOX VDBS100	Velox deep adaptor base
DBS100	Deep adaptor base
VELOX VDBS100S	Velox deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
UBR100	Universal adaptor base with resistor
DBSR100	Deep adaptor base with resistor
UBDR100	Universal adaptor base with resistor and Schottky diode
DBSRD100	Deep adaptor base with resistor and Schottky diode
40900	Velox adaptor base
40900-S	Velox adaptor base with short clip
40900-DP	Velox deep adaptor base
40900-DPS	Velox deep adaptor base with short clip

Certificate No: 928k-(cl-4) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Certificate No: 1154e to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 1154b to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-17: 2005

Smoke Detectors

Certificated Products

		LPCB Ref. No.
V100	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (VB100, VB100S, VDBS100 and VDBS100S Bases) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: - Optical only level 1 - High - Optical only level 2 - Optical only level 3 - Optical only level 4 - Low	1154b/01
VELOX 40910	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (40900, 40900-S, 40900-DP and 40900-DPS Bases) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings:- - Optical only level 1 - High - Optical only level 2 - Optical only level 3 - Optical only level 4 - Low	1154b/01
VELOX 40910-8	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (40900, 40900-S, 40900-DP and 40900-DPS Bases) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings:- - Optical only level 1 - High - Optical only level 2 - Optical only level 3 - Optical only level 4 - Low	1154b/02
VELOX LV100	Analogue Addressable Photoelectric Smoke Detector Lite (40900, 40900-S, 40900-DP and 40900-DPS bases) Note: Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	1154e/01
X100	Conventional photoelectric smoke detector (3900, 3900-DP, 3900-R, 3900-DPR, 3900-RD and 3900-DPRD bases)	1154e/02
VELOX LV100-8	Analogue Addressable Photoelectric Smoke Detector Lite (40900, 40900-S, 40900-DP and 40900-DPS bases) Note: Meets the requirements of EN 54-7 at the following sensitivity settings: - Optical only level 1 - High - Optical only level 2	1154e/03

Certificated Products

LPCB Ref. No.

VELOX WL100	<ul style="list-style-type: none"> - Optical only level 3 - Optical only level 4 - Low Wireless optical smoke detector (WAB100 base)	928k/01
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Notes:

1. Meets the requirements of EN 54-5 for Class A1R
2. The device must be used with the following batteries only:
 - CR123A (3 Vdc) - main battery
 - CR2032A (3 Vdc) - secondary battery

Bases

VELOX VB100	Velox adaptor base
UB100	Universal adaptor base
VELOX VB100S	Velox adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VELOX VDBS100	Velox deep adaptor base
DBS100	Deep adaptor base
VELOX VDBS100S	Velox deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
WAB100	Wireless Adaptor Base
40900	Velox adaptor base
40900-S	Velox adaptor base with short clip
40900-DP	Velox deep adaptor base
40900-DPS	Velox deep adaptor base with short clip
3900	Conventional detector adaptor base
3900-DP	Conventional detector deep adaptor base
3900-R	Conventional detector adaptor base with resistor
3900-DPR	Conventional detector deep adaptor base with resistor
3900-RD	Conventional detector adaptor base with resistor and Schottky diode
3900-DPRD	Conventional detector deep adaptor base with resistor and Schottky diode

Certificate No: 928m-(cl-4) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003
 Certificate No: 1154f to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003
 Certificate No: 1154c to EN 54-5: 2000 + A1: 2002 & EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-17: 2005 & CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products

LPCB Ref. No.

V200	Analogue Addressable Class P Heat and Photoelectric Smoke Multi-sensor Detector with Short Circuit Isolator (VB100, VB100S, VDBS100 and VDBS100S bases)	1154c/01
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Notes:

1. Meets the requirements of EN 54-5 for (Class A1) & EN 54-7 at the following settings:
 - Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with class A1 heat response
 - Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response
 - Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response
 - Multi Criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response
2. Meets the requirements of EN 54-5 (class A1R) at the following settings:
 - Class A1R heat only response
3. Meets the requirements of EN 54-7 at the following settings:
 - Optical only level 1 - High
 - Optical only level 2
 - Optical only level 3
 - Optical only level 4 - Low

VELOX 40920	Analogue Addressable Class P Heat and Photoelectric Smoke Multi-sensor Detector with Short Circuit Isolator (40900, 40900-S, 40900-DP and 40900-DPS Bases)	1154c/01
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Notes:

1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings:
 - Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response
 - Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
VELOX 40920-8	1154c/02
<p>Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response</p> <p>Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response</p> <p>2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response</p> <p>3. Meets the requirements of EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Optical only level 1 - HighOptical only level 2Optical only level 3Optical only level 4 - Low	
VELOX LV200	1154f/01
<p>Analogue Addressable Class P Heat and Photoelectric Smoke Multi-sensor Detector with Short Circuit Isolator (40900, 40900-S, 40900-DP and 40900-DPS bases)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-5 for (Class A1) & EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with class A1 heat responseMulti Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response <p>2. Meets the requirements of EN 54-5 (class A1R) at the following settings: Class A1R heat only response</p> <p>3. Meets the requirements of EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Optical only level 1 - HighOptical only level 2Optical only level 3Optical only level 4 - Low	
VELOX LV200-8	1154f/02
<p>Analogue Addressable Class P Heat and Photoelectric Smoke Multi-Sensor Detector Lite (40900, 40900-S, 40900-DP and 40900-DPS bases)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response <p>2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response</p> <p>3. Meets the requirements of EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Optical only level 1 - HighOptical only level 2Optical only level 3Optical only level 4 - Low	
VELOX WL200	928m/01
<p>Analogue Addressable Class P Heat and Photoelectric Smoke Multi-Sensor Detector Lite (40900, 40900-S, 40900-DP and 40900-DPS bases)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Multi Criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat responseMulti Criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response <p>2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response</p> <p>3. Meets the requirements of EN 54-7 at the following settings:</p> <ul style="list-style-type: none">Optical only level 1 - HighOptical only level 2Optical only level 3Optical only level 4 - Low	
<p>Wireless multi-criteria detector (WAB100 base)</p> <p>Notes:</p>	

Certificated Products

**LPCB Ref.
No.**

1. Meets the requirements of EN 54-5 for Class A1R
2. Meets the requirements of EN 54-7 in the normal sensitivity setting
3. The device must be used with the following batteries only:
 - CR123A (3 Vdc) - main battery
 - CR2032A (3 Vdc) - secondary battery

Bases

VELOX VB100	Velox adaptor base
UB100	Universal adaptor base
VELOX VB100S	Velox adaptor base with shorting clip
UB100S	Universal adaptor base with shorting clip
VELOX VDDBS100	Velox deep adaptor base
DBS100	Deep adaptor base
VELOX VDDBS100S	Velox deep adaptor base with shorting clip
DBS100S	Deep adaptor base with shorting clip
WAB100	Wireless Adaptor Base
40900	Velox adaptor base
40900-S	Velox adaptor base with short clip
40900-DP	Velox deep adaptor base
40900-DPS	Velox deep adaptor base with short clip

Certificate No: 928j-(cl-4) to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008

Point Heat Detectors

Certificated Products

**LPCB Ref.
No.**
928j/01

VELOX WL350	Wireless heat detector (WAB100 base)
	Notes:
	1. Meets the requirements of EN 54-5 for Class A1R
	2. The device must be used with the following batteries only: <ul style="list-style-type: none">• CR123A (3 Vdc) - main battery• CR2032A (3 Vdc) - secondary battery

Bases:

WAB100	Wireless Adaptor Base
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Autronica Fire & Security AS

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Certificate No: 1130a to EN54-10: 2002 + A1: 2005 & EN54-17: 2005

Certificate No: 1130b to EN54-10: 2002 + A1: 2005

Flame Detectors

Certificated Products

**LPCB Ref.
No.**
1130a/01
1130b/01

BG-201	Anaologue addressable IR flame detector (interactive) Note: Meets EN54-10: 2002 at Class 1, Class 2 & Class 3
BG-21	Conventional IR flame detector Note: Meets EN54-10: 2002 at Class 1 & Class 3

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

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Certificate No: 987a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 987d to EN 54-5: 2000 + A1:2002

Certificated Products

		LPCB Ref. No.
JTY-GM-LD3000EN/A	Point-Type Photoelectric Smoke Detector (LD10EN base)	987a/01
JTW-ZDM-LD3300EN	Analogue Addressable Point-Type Class A2S Heat Detector (LD10EN Base) Note: 1. Meets the requirements of EN 54-5:2000 for Class A2S	987d/01

Bases:

LD10EN mounting base

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E-mail: erichenx@vsail.com.cn • Website: www.vsail.com.cn

Certificate No: 1174b to EN 54-5:2000 + A1: 2002

Heat detector

Certificated Products

		LPCB Ref. No.
VC-6633	Conventional heat detector Note: Meets the requirements of EN 54-5 2000 at class A2R	1174b/01
VI-6637	Addressable Heat Detector (VB-6617 base) Note: 1. Meets the requirements of EN 54-5:2000 at class A1R and A2	1174b/02

Base

VB-6611

VB-6617 Addressable Mounting Base

Certificate No: 1174a to EN54:7:2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
VC-6623	Conventional Optical Smoke Detector (VB-6611 base) Note: Meets the requirements of EN 54-7: 2000 at default sensitivity setting only.	1174a/01
VI-6627	Addressable Optical Smoke Detector (VB-6617 base) Note: 1. Meets the requirements of EN 54-7:2000 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Base

VB-6611

VB-6617 Addressable Mounting Base

Certificate No: 1174f to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Certificated Products

LPCB Ref. No.
1174f/01

VI-6647 Addressable Smoke and Heat Detector (VB-6617 base)
Notes:
1) Meets the requirements of EN 54-5:2000 at Class A1R and A2
2) Meets the requirements of EN 54-7:2000 at the following sensitivity settings
 - Smoke Mode 2 and A1R
 - Smoke Mode 2 and A2
 - Smoke Mode 2 (Smoke only), heat disable

Base:
VB-6617 Addressable Mounting Base

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Certificate No: 1174a-(cl-3) to EN 54-7:2000 + A1:2002 + A2:2006

Certificate No: 1330b-(cl-2) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products

LPCB Ref. No.
1174a/01

B61-1001 Conventional Optical Smoke Detector (B61-4001 base)
Note:
 1. Meets the requirements of EN 54-7: 2000 at default sensitivity setting only
IGN-7401 Intelligent Smoke Detector (IGN-7200 base)

1330b/01

Bases

B61-4001 Base
IGN-7200 Base

Certificate No: 1174b-(cl-3) to EN 54-5:2000 + A1:2002

Certificate No: 1330c-(cl-2) to EN 54-5:2000 + A1:2002

Heat Detectors

Certificated Products

LPCB Ref. No.
1174b/01

B61-2001 Conventional Heat Detector (B61-4001 base)
Note:
 1. Meets the requirements of EN 54-5: 2000 at class A2R
IGN-7402 Intelligent Heat Detector (IGN-7200 base)
Note:
 1. Meets the requirements of EN 54-5 for Class A1R

1330c/01

Bases

B61-4001 Base
IGN-7200 Base

Certificate No: 506b-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-5: 2000 + A1: 2002, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

LPCB Ref. No.
506b/01
506b/02
506b/03

BF-SH-0115-2 (2 Wire) Optical Smoke and Class A2 Heat Detector (AHMB-031 Base)
BF-SH-0115-3 (3 Wire) Optical Smoke and Class A2 Heat Detector (AHMB-031 Base)
BF-SH-0115-4 (4 Wire) Optical Smoke and Class A2 Heat Detector (AHMB-031 Base)

Bases

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

AHMB-031 Mounting base

Certificate No: 1330a-(cl-5) to EN 54-12:2015

Certificated Products

IGN-C7404	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	LPCB Ref. No. 1330a/01
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Accessories:

Mounting Bracket

IGN-C7404-R 1 x Mirror Reflector

IGN-C7404-R 4 x Mirror Reflector

Ceasefire Industries Private Ltd

E6, Upside Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India

Tel: +911204223473

E-mail: amit@ceasefire.in

Certificate No: 928k-(cl-11) to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008

Certificate No: 928e-(cl-14)

Certificate No: 928b-(cl-10) to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
TI-002211	Addressable Photoelectric Smoke Detector with Short Circuit Isolator (TI-002231 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928b/02
TI-002265	Conventional Photoelectric Smoke Detector (TI-002270, DBS100, UBR100, DBSR100, UBDR100 and DBSRD100 Bases)	928e/02
TI-002212	Addressable Photoelectric Smoke Detector (TI-002231 Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03
TI-002277A	Wireless Addressable Optical Smoke Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Base

WAB100- wireless Adaptor Base

TI-002270 Universal Adaptor Base

DBS100 Deep Adaptor Base

UBR100 Universal Adaptor Base with Resistor

DBSR100 Deep Adaptor Base with Resistor

UBDR100 Universal Adaptor Base with Resistor and Schottky Diode

DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode
TI-002231 Low Profile Adaptor Base

Certificate No: 928j-(cl-11) to EN54-5: 2000 + A1: 2002 & EN 54-25: 2008
Certificate No: 928d-(cl-14) to EN 54-5: 2000 + A1: 2002
Certificate No: 928a-(cl-10) to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Certificated Products		LPCB Ref. No.
TI-002215	Analogue Addressable Class P Heat Detector with Short Circuit Isolator (TI-002231 base) <i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928a/02
TI-002267	Conventional Class B Heat Detector (TI-002270, DBS100, UBR100, DBSR100,UBDR100 and DBSRD100 Bases) 1. Meets the requirements of EN 54-5 for Class B	928d/02
TI-002268	Conventional Class A1R Heat Detector (TI-002270, DBS100, UBR100, DBSR100,UBDR100 and DBSRD100 Bases) <i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R	928d/02
TI-002216	Addressable Class P Heat Detector (TI-002231 Base) <i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928d/03
TI-002279A	Wireless Addressable Class P Heat Detector (WAB100 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 for Class A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases

TI-002270 Universal Adaptor Base
DBS100 Deep Adaptor Base
UBR100 Universal Adaptor Base with Resistor
DBSR100 Deep Adaptor Base with Resistor
UBDR100 Universal Adaptor Base with Resistor and Schottky
DBSRD100 Deep Adaptor Base with Resistor and Schottky Diode
TI-002231 Low Profile Adaptor Base

Certificate No: 928m-(cl-11) to EN 54-5: 2000 + A1: 2002, EN 54-7:2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 CEA 4021:2003
Certificate No: 928c-(cl-10) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 , EN 54-17: 2005, CEA 4021: 2003
Certificate No: 928f-(cl-10) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Certificated Products		LPCB Ref. No.
TI-002213	Addressable Multi-Criteria Detector with Short Circuit Isolator (TI-002231 base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928c/02
TI-002214	Addressable Photoelectric Smoke Detector & Class A1R Heat Detector (TI-002231 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings:	928f/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

TI-002278A	<p>Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 Low sensitivity Wireless Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery</p>	928m/02
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Base
WAB100 Base
TI-002231 Low Profile Adaptor Base

Channel Safety Systems Ltd

9 Petersfield Business Park, Petersfield GU32 3QA, United Kingdom
Tel: 08458847000 • Fax: 08458846000
E-mail: sales@channelsafety.co.uk • Website: www.channelsafety.co.uk

Certificate No: 010q-(cl-7) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products

LPCB Ref.
No.
010q/16

F/CHSM/A/95	<p>XP95 Analogue Addressable Ionisation Smoke Detector (F/BASE/95 base)Note: 1. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturers instructions.</p>	
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Bases
F/BASE/95 XP95 Mounting Base

Chubb Fire & Security Ltd

Littleton Road, Ashford, Middlesex TW15 1TZ, United Kingdom
Tel: 01784424100
E-mail: sales@chubb.co.uk • Website: www.chubb.co.uk

Certificate No: 010p to EN 54-5:2000 +A1:2002

Heat Detectors

Certificated Products

LPCB Ref.
No.
010p/06

F850675N	<p>Series 65 Conventional Class A1R Heat Detector (45681-200 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class A1R 2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and</p>	
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PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products

LPCB Ref. No.

F850677N	<p style="text-align: center;"><i>45681-201 mounting bases</i></p> <p>Series 65 Conventional Class BR Heat Detector (45681-200 base) Notes:</p> <ol style="list-style-type: none"> 1. <i>Meets the requirements of EN54: Part 5 at Class BR</i> 2. <i>Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.</i> 	010p/09
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Bases

- 45681-200 Series 60/65 mounting base
- 45681-201 Series 60/65 diode mounting base
- 45681-245 Series 65 relay mounting base
- 45681-246 Series 65 auxiliary relay mounting base
- 45681-247 Series 65 EOL 12 Volt mounting base
- 45681-248 Series 65 EOL 24 Volt mounting base

Certificate No: 010h to EN 54-5:2000 +A1:2002, EN 54-7:2000 +A1:2002 +A2:2006 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

LPCB Ref. No.
010h/01

F850511N	<p>Discovery Analogue Addressable Multisensor Detector (45681-209 and 45681-210 bases) Notes:</p> <ol style="list-style-type: none"> 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions. 	
46581-209	XP95/Discovery standard deep mounting base	
45681-210	XP95 Mounting base	

Certificate No: 010q to EN 54-7:2000 +A1:2002 +A2:2006

Smoke Detectors

Certificated Products

LPCB Ref. No.
010q/03

F850508N	<p>Discovery Analogue Addressable Photoelectric Smoke Detector (45681-209 and 45681-210 mounting bases) Note:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and inconventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions. 	010q/12
F850673N	<p>Series 65 Conventional Optical Smoke Detector(45681-200 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases</p>	010q/18
F850251N	<p>XP95 Analogue Addressable Optical Smoke Detector(45681-209 and 45681-210 mounting bases)Note: Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.</p>	
45681-200	Series 60/65 mounting base	
45681-201	Series 60/65 diode mounting base	
45681-245	Series 65 relay mounting base	
45681-246	Series 65 auxiliary mounting base	
45681-247	Series 65 EOL 12 Volt mounting base	
45681-248	Series 65 EOL 24 Volt mounting base	

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

45681-210 XP95 mounting base
45681-209 XP95/Discovery standard deep mounting base

Compuionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom

Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867

E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176k to EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-17:2005

Smoke Detectors

Certificated Products

		LPCB Ref. No.
CA416	CAST Optical Smoke Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01
HP416	HP Optical Smoke Detector with Short Circuit Isolator (HP408) Note: 1. Meets the requirements of EN 54-7 at high and medium sensitivity settings.	176k/01

Bases:

CA408 CAST Detector Standard Base
CA431A/W CAST Base Sounder with Short Circuit Isolator
CA456A/W CAST Base Sounder VAD with Short Circuit Isolator
CA460A/W CAST Base VAD with Short Circuit Isolator
HP408 HP Standard Base

Certificate No: 176m to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
CA414	CAST Multisensor Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Notes: 1. Meets the requirements of EN 54-5 for Class A2 2. Meets the requirements of EN 54-7 for low, medium and high sensitivity settings	176m/01

Bases:

CA408 CAST Detector Standard Base
CA431A/W CAST Base Sounder with Short Circuit Isolator
CA456A/W CAST Base Sounder VAD with Short Circuit Isolator
CA460A/W CAST Base VAD with Short Circuit Isolator
HP408 HP Standard Base

Certificate No: 176n to EN 54-5:2000 + A1:2002 & EN 54-17:2005

Certificated Products

		LPCB Ref. No.
CA402	CAST Class P Heat Detector with Short Circuit Isolator (CA408, CA431A/W, CA456A/W, CA460A/W) Notes: 1. Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B.	176n/01
HP402	HP Class P Heat Detector with Short Circuit Isolator (HP408) Notes: 1) Meets the requirements of EN 54-5 for Class A1, A1R, A2 & B.	176n/01

Bases:

CA408 CAST Detector Standard Base
CA431A/W CAST Base Sounder with Short Circuit Isolator
CA456A/W CAST Base Sounder VAD with Short Circuit Isolator
CA460A/W CAST Base VAD with Short Circuit Isolator
HP408 HP Standard Base

Consilium Marine and Safety AB

Salsmästaregatan 21 Box 8763, Gothenburg SE402 76, Sweden
Tel: +46 31 710 77 64 • Fax: +46 31 710 78 00
E-mail: cmsab@consilium.se • Website: www.consilium.se

Certificate No: 1461d-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-5:2000 + A1:2002, CEA 4021:2003

Multi-criteria Detectors

Certificated Products

EV-PP Analogue Addressable Combined Photoelectric Smoke and Class A1 Heat Sensor

LPCB Ref. No.
1461d/01

Bases:

UB-2 Universal Base
UB-6 Universal Base

Context Plus Ltd

Export House, 175 Mauldeth Road, Fallowfield, Manchester M14 6SG, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010u-(cl-2) to EN 54-5: 2000 + A1: 2002

Certificate No: 010p-(cl-4) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

55000-400IMC XP95 Analogue addressable Class A2S heat detector (45681-210IMC mounting base)
Certified with XP95 digital communications protocol.
55000-465IMC Analogue addressable Class A2S heat detector (45681-213IMC and 45681-505IMC bases)
55000-475IMC Analogue addressable Class CS heat detector (45681-213IMC and 45681-505IMC bases)

LPCB Ref. No.
010p/20
010u/04
010u/05

Bases

45681-200IMC Mounting base
45681-213IMC Common mounting base
45681-505IMC Negative switching isolating base
45681-210IMC XP95 Mounting base

Certificate No: 010v-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 010q-(cl-4) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

55000-500IMC XP95 Analogue Addressable Ionisation Smoke Detector (45681-210IMC Mounting base)
Certified with XP95 digital communication protocol.
55000-600IMC XP95 Analogue Addressable Optical Smoke Detector (45681-210IMC Mounting base)
Certificated with XP95 digital communication protocol.
55000-665IMC Analogue addressable optical smoke (45681-213IMC and 45681-505IMC bases)

LPCB Ref. No.
010q/16
010q/18
010v/02

Bases

45681-200IMC Mounting base
45681-210IMC XP95 Mounting base
45681-213IMC Common mounting base
45681-505IMC Negative switching isolating base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 010m-(cl-3) to EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
55000-885	XP95 Multisensor Smoke Detector (45681-210 Mounting Base)Certified with Apollo XP95 and S90 digital communication protocols that have been configured for the XP95 multisensor detector in accordance with manufacturers instructions.	010m/01
45681-210	XP95 Mounting base	

Cooper Sécurité SAS

Parc Européen d'Entreprises II, Rue Beethoven, BP 10184, 63204 Riom Cedex, France

Tel: +44 (0)1302 3397 • Fax: +44 (0)1302 303220

E-mail: phillipwilliams@eaton.com

Certificate No: 685j-(cl-3) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificate No: 685h-(cl-3) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 1260a-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
DOFA3000	Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (NUG30256 and NUG30258 bases)	1260a/01
DOFS3000	Conventional photoelectric smoke detector and NUG30257 bases)	685h/01
DOFA3000	Intelligent analogue addressable photoelectric smoke detector and NUG30258 bases)	685j/01

Bases

NUG30256 Standard analogue addressable mounting base

NUG30255 Standard conventional mounting base

NUG30257 Double contact standard conventional mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 685m-(cl-3) to EN 54-5: 2000 + A1: 2002 and EN 54-17: 2005

Heat Detectors

Certificated Products

		LPCB Ref. No.
DTVA3000	Intelligent analogue addressable Class P heat detector and NUG30258 bases) Notes: 1. Meets the requirements of EN 54-5 at classes A1R, BS and CS	685m/01

Bases

NUG30256 Single contact standard analogue addressable mounting base

NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 685k-(cl-3) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA4021: July 2003(en)

Certificate No: 685g-(cl-3) to EN 54-5: 2000 + A1: 2002 & EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 1260b-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-5:2000 + A1:2002, CEA 4021:2003

Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
DMCFA3000	Intelligent Analogue Addressable Class A2S Multisensor Opto/Heat Detector with Short Circuit isolator (NUG30256 and NUG30258 bases) Notes: 1. Meets the requirements of EN54-5 and EN54-7 in the following modes: Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Class A2S) Mode 3 Heat detector alone (class A2S)	1260b/01

Certificated Products

		LPCB Ref. No.
DMCFS3000	Conventional photo/thermal multisensor and Class A2S heat detector and NUG30257 bases)	685g/01
DMCFA3000	Intelligent analogue addressable Class A2S multisensor opto/heat detector and NUG30258 bases) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5 and EN 54-7 in the following modes:</i> <i>Mode 1 - Photoelectric/heat combined only</i> <i>Mode 2 - Photoelectric/heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 - Heat detector alone (Class A2S)</i>	685k/01

Bases

NUG30256 Standard analogue addressable mounting base
 NUG30255 Standard conventional mounting base
 NUG30257 Double contact standard conventional mounting base
 NUG30258 Double contact standard analogue addressable mounting base

Certificate No: 685a-(cl-3) to EN 54-5: 2000 + A1: 2002
Certificate No: 1260c-(cl-1) to EN 54-17:2005, EN 54-5:2000 + A1:2002

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
DTVA3000	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (NUG30256 and NUG30258 bases) <i>Notes:</i> 1. Meets the requirements of EN54-5 at classes A1R, BS and CS	1260c/01
DTVS3000	Conventional Class A2R heat detector and NUG30257 bases)	685a/01
DTS77°S3000	Conventional Class BS heat detector and NUG30257 bases)	685a/02
DTS90°S3000	Conventional Class CS heat detector and NUG30257 bases)	685a/03

Bases

NUG30255 Standard conventional mounting base
 NUG30257 Double contact standard conventional mounting base

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia 23834, USA
 Tel: 804-417-2244
 E-mail: marketing@detectfire.info • Website: <http://detectfire.info/>

Certificate No: 1283a(cl-4) to EN 54-12: 2002

Beam Detectors

Certificated Products

		LPCB Ref. No.
DF 800	Conventional Optical Beam Smoke Detector (Double Pass) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-12 at the following sensitivity settings only:</i> - <i>18% obscuration high sensitivity at between 5-20m</i> - <i>30% obscuration medium sensitivity at between 20-100m</i> 2. <i>Suitable for use with E39-R8 prismatic reflector over distances from 5 to 50m</i> 3. <i>Suitable for use with 4 x E39-R8 set of reflectors over distances from 50 to 100m</i>	1283a/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Detector Electronics Corporation

6901 West 110th Street, Minneapolis, Minnesota 55438, USA

Tel: +001 952 946 6488

E-mail: detronics@detronics.com • Website: www.det-tronics.com

Certificate No: 973a to EN 54-10: 2002 + A1: 2005 and EN 54-17: 2005

Certificate No: 973e to EN 54-10: 2002 + A1: 2005

Certificated Products

LPCB Ref. No.

X9800	Analogue Addressable IR Flame Detector with Short Circuit Isolator Notes: 1. <i>The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.</i> 2. <i>Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only.</i> 3. <i>Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only.</i> 4. <i>Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.</i>	973a/01
X5200	Analogue Addressable UV/IR Flame Detector with Short Circuit Isolator Notes: 1. <i>The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.</i> 2. <i>Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only.</i> 3. <i>Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.</i> 4. <i>Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.</i>	973a/02
X3301	Analogue Addressable Multispectrum IR Flame Detector with Short Circuit Isolator Notes: 1. <i>The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.</i> 2. <i>Meets the requirements of EN 54-10:2002 Classes 1, 2 and 3 at Medium and Very High sensitivity settings for IR sensor only.</i>	973a/03
X2200	Analogue Addressable UV Flame Detector with Short Circuit Isolator Notes: 1. <i>The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.</i> 2. <i>Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.</i> 3. <i>Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only.</i> 4. <i>Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.</i>	973a/04
X5200G	Analogue Addressable UV/IR Flame Detector with Short Circuit Isolator Notes: 1. <i>The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.</i> 2. <i>Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only.</i> 3. <i>Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.</i> 4. <i>Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.</i>	973a/05
X2200G	Analogue Addressable UV Flame Detector with Short Circuit Isolator Notes: 1. <i>The isolation is applied on the LON communication transmission path and not the power transmission path. Refer to the manufacturers installation document 95-8642 with respect to the number of devices to be connected in a group or zone.</i> 2. <i>Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.</i> 3. <i>Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very</i>	973a/06

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p><i>High sensitivity settings for UV sensor only.</i></p> <p>4. <i>Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.</i></p> <p>X9800 Conventional IR Flame Detector</p> <p>Notes:</p> <p>1. <i>Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for IR sensor only.</i></p> <p>2. <i>Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for IR sensor only.</i></p> <p>3. <i>Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for IR sensor only.</i></p>	973e/01
<p>X5200 Conventional UV / IR Flame Detector</p> <p>Notes:</p> <p>1. <i>Meets the requirements of EN 54-10:2002 Class 1 at any combination of High and Very High sensitivity settings for UV and IR sensors only.</i></p> <p>2. <i>Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.</i></p> <p>3. <i>Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.</i></p>	973e/02
<p>X3301 Conventional Multispectrum IR Flame Detector</p> <p>Note:</p> <p>1. <i>Meets the requirements of EN 54-10:2002 Classes 1, 2 and 3 at Medium and Very High sensitivity settings for IR sensor only.</i></p>	973e/03
<p>X2200 Conventional UV Flame Detector</p> <p>Notes:</p> <p>1. <i>Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.</i></p> <p>2. <i>Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only.</i></p> <p>3. <i>Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.</i></p>	973e/04
<p>X5200G Conventional UV/IR Flame Detector</p> <p>Notes:</p> <p>1. <i>Meets the requirements of EN54-10: 2002 Class 1, 2 and 3 at any combination of High and Very High sensitivity settings for UV and IR sensors only.</i></p> <p>2. <i>Meets the requirements of EN 54-10:2002 Class 2 at any combination of Medium, High and Very High sensitivity settings for UV and IR sensors only.</i></p> <p>3. <i>Meets the requirements of EN 54-10:2002 Class 3 at any combination of Low, Medium, High and Very High sensitivity settings for UV and IR sensors only.</i></p>	973e/05
<p>X2200G Conventional UV Flame Detector</p> <p>Note:</p> <p>1. <i>Meets the requirements of EN 54-10:2002 Class 1 at High and Very High sensitivity settings for UV sensor only.</i></p> <p>2. <i>Meets the requirements of EN 54-10:2002 Class 2 at Medium, High and Very High sensitivity settings for UV sensor only.</i></p> <p>3. <i>Meets the requirements of EN 54-10:2002 Class 3 at Low, Medium, High and Very High sensitivity settings for UV sensor only.</i></p>	973e/06
<p>Bases: Q9033 Mounting Arm</p>	

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Certificate No: 378m to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products	LPCB Ref. No.
<p>FIRECAT Conventional Multi-Sensor Smoke / Heat Detector (FIRECAT Base)</p> <p>Notes:</p> <p>1. <i>Meets the requirements of EN 54-7:2000 at the following settings:</i> S1 <i>High sensitivity (optical smoke only) 0.10dB/m</i> S2 <i>Low sensitivity dual multi-sensor (smoke enhanced by heat and class A2S heat</i></p>	378m/01

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COMMERCIAL DETECTORS

Certificated Products

detector) 0.15dB/m
2. Meets the requirements of EN 54-5:2000 at the following settings:
M1 Heat detector Class A1R
M2 Heat detector Class BS

LPCB Ref.
No.

Eaton Electrical Products Ltd

Security House, Vantage Point Business Village, Mitcheldean, Gloucestershire GL17 0SX, United Kingdom
Tel: +441594545543

Certificate No: 685g-(cl-4) to EN 54-5:2000 + A1: 2002 EN 54-7:2000 + A1: 2002 + A2: 2006 CEA 4021: 2003

Certificated Products

M12

Conventional Multi-Sensor Smoke / Heat Detector (M12 Base)

Notes:

- Meets the requirements of EN 54-7:2000 at the following settings:
S1 - High sensitivity (optical smoke only) 0.10dB/m
S2 - Low sensitivity dual multi-sensor (smoke enhanced by heat and class A2S heat detector) 0.15dB/m
- Meets the requirements of EN 54-5:2000 at the following settings:
M1 - Heat detector Class A1R
M2 - Heat detector Class BS

LPCB Ref.
No.
685g/03

Bases

M12

Eaton Electrical Systems Limited

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, United Kingdom
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Certificate No: 714t to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005

Certificated Products

CAP320

Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (CAB300 Base) - (Cooper)

COPP420

Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (COPA800 Base)

FXN723

Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FXN720 and FXABD Bases) - (JSB)

MAP820

Intelligent Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (MAB800 and MABD Bases) - (Menvier)

LPCB Ref.
No.

714t/01

714t/01

714t/01

714t/01

Bases

MAB800 (Menvier) Single contact standard analogue addressable mounting base
FXN720 (JSB) Single contact standard analogue addressable mounting base
CAB300 (Cooper) Single contact standard analogue addressable mounting base
COPA800 Single contact standard analogue addressable mounting base
MABD (Menvier) Double contact standard analogue addressable mounting base
FXABD (JSB) Double contact standard analogue addressable mounting base
CABD (Cooper) Double contact standard analogue addressable mounting base

Certificate No: 714u to EN54-5:2000+ A1: 2002, EN 54-7:2000+ A1: 2002 + A2: 2006, EN54-17:2005, CEA 4021:2003

Certificated Products

CAPT340

Intelligent Analogue Addressable Class A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (CAB300 base) (Cooper)

LPCB Ref.
No.

714u/01

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p><i>Notes: 1. Meets the requirements of EN54-5 and EN54-7 in the following modes:</i> <i>Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 Heat detector alone (class A2S)</i></p>	
COPOH450 Intelligent Analogue Addressable Class A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (COPA800 base)	714u/01
<p><i>Notes: 1. Meets the requirements of EN54-5 and EN54-7 in the following modes:</i> <i>Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 Heat detector alone (class A2S)</i></p>	
FXN722 Intelligent Analogue Addressable Class A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (FXN720 and FXABD bases) - (JSB)	714u/01
<p><i>Notes: 1. Meets the requirements of EN54-5 and EN54-7 in the following modes:</i> <i>Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 Heat detector alone (class A2S)</i></p>	
MAOH850 Intelligent Analogue Addressable Class A2S Multisensor Opto/Heat Detector with Short Circuit Isolator (MAB800 and MABD bases) - (Menvier)	714u/01
<p><i>Notes: 1. Meets the requirements of EN54-5 and EN54-7 in the following modes:</i> <i>Mode 2 Photoelectric/Heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 Heat detector alone (class A2S)</i></p>	

Bases

MAB800 (Menvier) Single contact standard analogue addressable mounting base
FXN720 (JSB) Single contact standard analogue addressable mounting base
CAB300 (Cooper) Single contact standard analogue addressable mounting base
COPA800 Single contact standard analogue addressable mounting base
MABD (Menvier) Double contact standard analogue addressable mounting base
FXABD (JSB) Double contact standard analogue addressable mounting base
CABD (Cooper) Double contact standard analogue addressable mounting base

Certificate No: 714v to EN 54-5:2000 + A1; 2002, EN 54-17:2005

Certificated Products	LPCB Ref. No.
CAH330 Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (CAB300 Base) (Cooper)	714v/01
<p><i>Notes:</i> 1. Meets the requirements of EN54-5 at classes A1R, BS and CS</p>	
COPH430 Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (COPA800 Base)	714v/01
<p><i>Notes:</i> 1. Meets the requirements of EN54-5 at classes A1R, BS and CS</p>	
FXN725 Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (FXN720 and FXABD Bases) - (JSB)	714v/01
<p><i>Notes:</i> 1. Meets the requirements of EN54-5 at classes A1R, BS and CS</p>	
MAH830 Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (MAB800 and MABD Bases) - (Menvier)	714v/01
<p><i>Notes:</i> 1. Meets the requirements of EN54-5 at classes A1R, BS and CS</p>	

Bases

MAB800 (Menvier) Single contact standard analogue addressable mounting base
FXN720 (JSB) Single contact standard analogue addressable mounting base
CAB300 (Cooper) Single contact standard analogue addressable mounting base
COPA800 Single contact standard analogue addressable mounting base
MABD (Menvier) Double contact standard analogue addressable mounting base
FXABD (JSB) Double contact standard analogue addressable mounting base
CABD (Cooper) Double contact standard analogue addressable mounting base

Certificate No: 685j-(cl-1) to EN 54-7:2000+A1: 2002 + A2: 2006, EN 54-17:2005

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COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
FXN723	Intelligent analogue addressable photoelectric smoke detector with short circuit isolator (FXN720, MABD, FXABD and CABD bases)	685j/01
MAP820	Intelligent analogue addressable photoelectric smoke detector with short circuit isolator (MAB800, MABD, FXABD and CABD bases)	685j/01

Bases:

MAB800	Single contact standard analogue addressable mounting base
FXN720	Single contact standard analogue addressable mounting base
MABD	Double contact standard analogue addressable mounting base
CABD	Double contact standard analogue addressable mounting base
FXABD	Double contact standard analogue addressable mounting base

Certificate No: 685j-(cl-2) to EN 54-7:2000 + A1; 2002 + A2: 2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
CAP320	Intelligent analogue addressable photoelectric smoke detector with short circuit isolator (CAB300, MABD, FXABD and CABD bases)	685j/01
COPP420	Intelligent analogue addressable photoelectric smoke detector with short circuit isolator (COPA800, MABD, FXABD and CABD bases)	685j/01

Bases:

CAB300	Single contact standard analogue addressable mounting base
COPA800	Single contact standard analogue addressable mounting base
MABD	Double contact standard analogue addressable mounting base
CABD	Double contact standard analogue addressable mounting base
FXABD	Double contact standard analogue addressable mounting base

Certificate No: 685k-(cl-1) to EN 54-5:2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005, CEA 4021:2003

Certificated Products

		LPCB Ref. No.
FXN722	Intelligent analogue addressable Class A2S multisensor opto/heat detector with short circuit isolator (FXN720, MABD, FXABD and CABD bases) <i>Notes:</i> <i>1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes:</i> <i>Mode 1 Photoelectric/heat combined only</i> <i>Mode 2 Photoelectric/heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 Heat detector alone (Class A2S)</i>	685k/01
MAOH850	Intelligent analogue addressable Class A2S multisensor opto/heat detector with short circuit isolator (MAB800, MABD, FXABD and CABD bases) <i>Notes:</i> <i>1. Meets the requirements of EN 54-5 and EN 54-7 in the following modes:</i> <i>Mode 1 Photoelectric/heat combined only</i> <i>Mode 2 Photoelectric/heat combined together with an alarm output from temperature alone (Class A2S)</i> <i>Mode 3 Heat detector alone (Class A2S)</i>	685k/01

Bases:

MAB800	Single contact standard analogue addressable mounting base
FXN720	Single contact standard analogue addressable mounting base
MABD	Double contact standard analogue addressable mounting base
CABD	Double contact standard analogue addressable mounting base
FXABD	Double contact standard analogue addressable mounting base

Certificate No: 685k-(cl-2) to EN 54-5:2000 + A1: 2002, EN 54-7:2000 + A1: 2002 + A2: 2006, EN 54-17:2005, CEA 4021:2003

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>CAPT340 Intelligent analogue addressable Class A2S multisensor opto/heat detector with short circuit isolator (CAB300, MABD, FXABD and CABD bases)</p> <p><i>Notes:</i></p> <p>1. <i>Meets the requirements of EN 54-5 and EN 54-7 in the following modes:</i></p> <p><i>Mode 1 Photoelectric/heat combined only</i></p> <p><i>Mode 2 Photoelectric/heat combined together with an alarm output from temperature alone (Class A2S)</i></p> <p><i>Mode 3 Heat detector alone (Class A2S)</i></p>	685k/01
<p>COPOH450 Intelligent analogue addressable Class A2S multisensor opto/heat detector with short circuit isolator (COPA800, MABD, FXABD and CABD bases)</p> <p><i>Notes:</i></p> <p>1. <i>Meets the requirements of EN 54-5 and EN 54-7 in the following modes:</i></p> <p><i>Mode 1 Photoelectric/heat combined only</i></p> <p><i>Mode 2 Photoelectric/heat combined together with an alarm output from temperature alone (Class A2S)</i></p> <p><i>Mode 3 Heat detector alone (Class A2S)</i></p>	685k/01
Bases:	
CAB300 Single contact standard analogue addressable mounting base	
COPA800 Single contact standard analogue addressable mounting base	
MABD Double contact standard analogue addressable mounting base	
CABD Double contact standard analogue addressable mounting base	
FXABD Double contact standard analogue addressable mounting base	

Certificate No: 685m-(cl-1) to EN 54-5:2000 + A1: 2002 EN 54-17:2005

Certificated Products	LPCB Ref. No.
<p>FXN725 Intelligent analogue addressable Class P heat detector with short circuit isolator (FXN720, MABD, FXABD and CABD bases)</p> <p><i>Notes:</i></p> <p>1. <i>Meets the requirements of EN 54-5 at classes A1R, BS and CS</i></p>	685m/01
<p>MAH830 Intelligent analogue addressable Class P heat detector with short circuit isolator (MAB800, MABD, FXABD and CABD bases)</p> <p><i>Notes:</i></p> <p>1. <i>Meets the requirements of EN 54-5 at classes A1R, BS and CS</i></p>	685m/01

Bases:

FXN720	Single contact standard analogue addressable mounting base
MAB800	Single contact standard analogue addressable mounting base
MABD	Double contact standard analogue addressable mounting base
FXABD	Double contact standard analogue addressable mounting base
CABD	Double contact standard analogue addressable mounting base

Certificate No: 685m-(cl-2) to EN 54-15:2000 + A1: 2002, EN 54-17:2005

Certificated Products	LPCB Ref. No.
<p>CAH330 Intelligent analogue addressable Class P heat detector with short circuit isolator (CAB300, MABD, FXABD and CABD bases)</p> <p><i>Notes:</i></p> <p>1. <i>Meets the requirements of EN 54-5 at classes A1R, BS and CS</i></p>	685m/01
<p>COPH430 Intelligent analogue addressable Class P heat detector with short circuit isolator (COPA800, MABD, FXABD and CABD bases)</p> <p><i>Notes:</i></p> <p>1. <i>Meets the requirements of EN 54-5 at classes A1R, BS and CS</i></p>	685m/01

Bases:

CAB300	Single contact standard analogue addressable mounting base
COPA800	Single contact standard analogue addressable mounting base
MABD	Double contact standard analogue addressable mounting base
CABD	Double contact standard analogue addressable mounting base

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COMMERCIAL DETECTORS

FXABD Double contact standard analogue addressable mounting base

Certificate No: 685g-(cl-1) to EN 54-5:2000 + A1: 2002, EN 54-7:2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Certificated Products

		LPCB Ref. No.
EFXN632	Conventional photo/thermal multisensor and Class A2S Heat Detector (EFDB800 and EFXN520 Bases)	685g/01
FXN922	Conventional photo/thermal multisensor and Class P Heat Detector (EFDB800 and EFXN520 Bases)	685g/02

Notes:

1. Meets the requirements of EN 4-7: 2000 in the following modes:

Mode 1 Thermally enhanced optical smoke detector

Smoke sensitivity 0.15dB/m

Mode 2 Optical smoke detector

Smoke sensitivity 0.1 dB/m

2. Meets the requirements of EN 54-5:2000 in the following modes:

Mode 3 Heat detector Class A1R

Mode 4 Heat detector Class BS

Mode 5 Heat detector Class CS

Bases:

EFDB800 Single contact standard conventional mounting base (Zener diode)

EFXN520 Single contact conventional mounting base (Schottky diode)

Certificate No: 685g-(cl-2) to EN 54-5 :2000 + A1:2002. EN 54-7: 2000 + A2: 2002 + A2: 2006, CEA 4021:2003

Bases:

EFDB800 Single contact standard conventional mounting base (Zener diode)

EFXN520 Single contact conventional mounting base (Schottky diode)

Certificate No: 685h-(cl-1) to EN 54-7: 2000 + A2: 2002 + A2: 2006

Certificated Products

		LPCB Ref. No.
EFXN533	Conventional Photoelectric Smoke Detector (EFDB800 and EFXN520 Bases)	685h/01

EFDB800 Single contact standard conventional mounting base (Zener diode)

EFXN520 Single contact conventional mounting base (Schottky diode)

EFDB800 Single contact standard conventional mounting base (Zener diode)

EFXN520 Single contact conventional mounting base (Schottky diode)

Certificate No: 685a-(cl-1) to EN 54-5:2000 + A1: 2002

Certificate No: 685a-(cl-2) to EN 54-5: 2000 + A1:2002

Certificated Products

		LPCB Ref. No.
EFXN525	Conventional Class A2R Heat Detector (EFDB800 and EFXN520 Bases)	685a/01
EFXN524	Conventional Class BS Heat Detector (EFDB800 and EFXN520 Bases)	685a/02
EFXN526	Conventional Class CS Heat Detector (EFDB800 and EFXN520 Bases)	685a/03

Bases:

EFXN520 Single contact conventional mounting base (Schottky Diode)

EFDB800 Single contact standard conventional mounting base (Zener Diode)

Certificate No: 714r to EN 54-5: 2000 + A1: 2002 EN 54-7: 2000 + A1: 2002 + A2: 2006 CEA 4021: 2003

Certificated Products

LPCB Ref. No.
714r/02

EFBW5IN1DET Conventional Photo/Thermal Multisensor and Class P Heat Detector (EFDB800 and EXFN520 Bases)
Notes:
1. Meets the requirements of EN 54-7:2000 in the following modes: Mode 1 - Thermally enhanced optical smoke detector
Smoke sensitivity 0.15dB/m
Mode 2 - Optical smoke detector
Smoke sensitivity 0.1 dB/m
2. Meets the requirements of EN 54-5:2000 in the following modes:
Mode 3 - Heat detector Class A1R
Mode 4 - Heat detector Class BS
Mode 5 - Heat detector Class CS

Bases:

EFDB800 Single Contact Standard Conventional Mounting Base (Zener Diode)
EXFN520 Single Contact Conventional Mounting Base (Schottky Diode)

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Certificate No: 1086a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

LPCB Ref. No.
1086a/01

EC-P2L Conventional optical smoke detector 5 pin (EC-DB base)
EC-P2L-3 Conventional optical smoke detector 3 pin (EC-DB3 base) 1086a/02

Base:

EC-DB 5 pin base
EC-DB3 3 pin base

EL.MO. Spa

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Tel: +390499203333
E-mail: international@elmospa.com • Website: www.elmospa.com

Certificate No: 1163a-(cl-2) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products

LPCB Ref. No.
1163a/03

SN101C 2-Wire Conventional Optical Smoke Detector with Remote LED Output (BSC Base)
Note:
1. Meets the requirements of EN 54-7 at the default smoke sensitivity

Bases

BSC 2-Wire with Remote LED Base

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COMMERCIAL DETECTORS

Certificate No: 1163c-(cl-2) to EN 54-5:2000 + A1:2002

Heat Detectors

Certificated Products

SNI02C 2-Wire Conventional Heat Detector with Remote LED Output (BSC Base)
Note:
1. Meets the requirements of EN 54-5 for the following setting:
- Class A1R

LPCB Ref.
No.
1163c/07

Bases

BSC 2-Wire with Remote LED Base

Certificate No: 1163p-(cl-1) to EN 54-5:2000 + A1:2002 & EN 54-7:2000 + A1:2002 + A2:2006

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

SNI03C 2-Wire Conventional Heat and Optical Smoke Detector with Remote LED Output (BSC Base)
Notes:
1. Meets the requirements of EN 54-5 for the following setting:
- Class A2
2. Meets the requirements of EN 54-7 at the default smoke sensitivity

LPCB Ref.
No.
1163p/01

Base

BSC 2-Wire with Remote LED Base

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom

Tel: +44 (0)1527 515150

E-mail: info@espuk.com • Website: <https://www.espuk.com/>

Certificate No: 331g-(cl-1) to EN 54-3:2001+ A1: 2002 + A2: 2006 EN 54-5:2000+ A1: 2002 EN 54-7: 2000 + A1: 2002 + A2: 2006
CEA 4021: 2003

Certificate No: 331y-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000+ A1: 2002 + A2: 2006, CEA 4021:2003

Certificate No: 331z-(cl-1) to EN 54-3:2001 + A1: 2002 + A2:2006, EN 54-5:2000 +A1:2002, EN 54-7:2000 + A2: 2006, CEA 4021:2003

Certificated Products

MAGDUOSHDS MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder & Strobe (45-0048-202-01 Base)

Notes:

- Meets the requirements of EN 54-5:2000 at the following settings:
HM1 Class A1 standard temperature rate of rise enhanced
HM2 Class A1 standard temperature, fixed temperature
HM3 Class C standard temperature, fixed temperature
- Meets the requirements of EN 54-7:2000 at the following settings:
SM1 Standard optical sensitivity with high thermal enhancement
SM2 Standard optical sensitivity with normal thermal enhancement
- Meets the requirements of EN 54-3: 2001 at the following tones -
SP1 Continuous 970Hz
SP2 Alternating tone at 800/970Hz
SP3 Sweep Up 800-970Hz

LPCB Ref.
No.
331g/03

MAGDUOSHD MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector (45-0048-202-01 Base)

Notes:

- Meets the requirements of EN 54-5:2000 at the following settings:
HM1 Class A1 standard temperature rate of rise enhanced
HM2 Class A1 standard temperature, fixed temperature
HM3 Class C standard temperature, fixed temperature
- Meets the requirements of EN 54-7:2000 at the following settings:
SM1 Standard optical sensitivity with high thermal enhancement

331y/01

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COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
MAGDUOSHDS	<i>SM2 Standard optical sensitivity with normal thermal enhancement</i> MAGDUO Flexipoint Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder (45-0048-202-01 Base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5:2000 at the following settings:</i> <i>HM1 Class A1 standard temperature rate of rise enhanced</i> <i>HM2 Class A1 standard temperature, fixed temperature</i> <i>HM3 Class C standard temperature, fixed temperature</i> 2. <i>Meets the requirements of EN 54-7:2000 at the following settings:</i> <i>SM1 Standard optical sensitivity with high thermal enhancement</i> <i>SM2 Standard optical sensitivity with normal thermal enhancement</i> 3. <i>Meets the requirements of EN 54-3 :2001 at the following tones -</i> <i>SP1 Continuous 970Hz</i> <i>SP2 Alternating tone at 800/970Hz</i> <i>SP3 Sweep Up 800-970Hz</i>	331z/01

Bases:

45-0048-202-01 Standard Base

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Tel: +971 6 5340300 • Fax: +971 6 5340090

E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506a to EN 54-7: 2000

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
FX-0311-2	(2 - wire) Conventional photoelectric smoke detector (AHMB-031 Base)	506a/02
FX-0311-3	(3 - wire) Conventional photoelectric smoke detector (AHMB-031 Base)	506a/03
FX-0311-4	(4 - wire) Conventional photoelectric smoke detector (AHMB-031 Base)	506a/04

Bases:

AHMB-031 mounting base

Certificate No: 506b to EN 43-7: 2000 + A1: 2002 + A2: 2006, EN 54-5: 2000 + A1: 2002 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
FX-0315-2	(2 - wire) Optical smoke and Class A2 heat detector (AHMB-31 Base)	506b/01
FX-0315-3	(3 - wire) Optical smoke and Class A2 detector (AHMB-31 Base)	506b/02
FX-0315-4	(4 - wire) Optical smoke and Class A2 heat detector (AHMB-31 Base)	506b/03

Bases:

AHMB-031 mounting base

Certificate No: 506c to EN54-5: 2000

Point Heat Detector

Certificated Products

		LPCB Ref. No.
FX-0316-2	(2 wire) Conventional Class A2 rate of rise and fixed temperature heat detector (AHMB-31 Base)	506c/01
FX-0316-3	(3 wire) Conventional Class A2 rate of rise and fixed temperature heat detector (AHMB-031 Base)	506c/02
FX-0316-4	(4 wire) Conventional Class A2 rate of rise and fixed temperature heat detector (AHMB-31 Base)	506c/03

Bases:

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

AHMB-031 mounting base

Etudes et Productions Schlumberger

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Tel: +33 145377258

Certificate No: 1492a to LPCB Test Schedule P107397/1.2

Certificated Products

		LPCB Ref. No.
DTS240SC	Fibre Optic Linear Heat Detector - Single Channel Notes: 1. Approval is conditional on the following: The use of SensorLine II or SensorTube II optical fibres (Stainless Steel) The use of SensorLine II, SensorTube II optical fibres (Stainless Steel) or SensorLine II Legacy The optical fibre lengths should not exceed 4km. The system should be installed and configured in accordance with the manufacturers instructions. The zone/alarm configuration parameters should be set in accordance with the manufacturers instructions for an alarm response equivalent to Class A1R as specified in EN 54-5: 2000 + A1: 2002. 2. The product is known as the LTS240SC when supplied in a wall-mount or rack-mount housing.	1492a/01
DTS240TC	Fibre Optic Linear Heat Detector - Twin Channel Notes: 1. Approval is conditional on the following: The use of SensorLine II or SensorTube II optical fibres (Stainless Steel). The use of SensorLine II, SensorTube II optical fibres (Stainless Steel) or SensorLine II Legacy The optical fibre lengths should not exceed 4km. The system should be installed and configured in accordance with the manufacturers instructions. The zone/alarm configuration parameters should be set in accordance with the manufacturers instructions for an alarm response equivalent to Class A1R as specified in EN 54-5: 2000 + A1: 2002. 2. The product is known as the LTS240TC when supplied in a wall-mount or rack-mount housing.	1492a/01

Eurofyre Limited

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E-mail: jon@eurofyre.com

Certificate No: 1163a-(cl-1) to EN54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
12-020	Conventional Optical Smoke Detector (12-030 base and 12-031 base) Note:1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting range:0.08%dB- 0.12%dB	1163a/01
16-050	Addressable Optical Smoke Detector (12-030 base and 12-031 base) Note: 1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting range:0.09%dB- 0.11%dB	1163a/02

Bases:

12-030	Shallow Base
12-031	Deep Base

Certificate No: 1163b-(cl-1) to EN54-7: 2000 + A1: 2002 + A2: 2006, EN54-5:2000 + A1: 2002 & CEA 4021 July 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products	LPCB Ref. No.
12-023 Conventional Optical Heat Detector (12-030 base and 12-031 base) <i>Note:</i> 1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting range:0.08%dB-0.12%dB 2. Meets the requirements of EN 54-5:2000 at Class A2	1163b/01
16-053 Addressable Optical Heat Detector (12-030 base and 12-031 base) <i>Note:</i> 1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting range:0.09%dB-0.12%dB 2. Meets the requirements of EN 54-5:2000 at Class A1	1163b/02

Bases:

12-030	Shallow Base
12-031	Deep Base

Certificate No: 1163c-(cl-1) to EN54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products	LPCB Ref. No.
12-022 Conventional A2S Heat Detector (12-030 base and 12-031 base) <i>Note:</i> 1. Meets the requirements of EN 54-5:2000 at Class A2S	1163c/01
12-021 Conventional A2R Heat Detector (12-030 base and 12-031 base) <i>Note:</i> 1. Meets the requirements of EN 54-5:2000 at Class A2R	1163c/02
16-052 Addressable A2S Heat Detector (12-030 base and 12-031 base) <i>Note:</i> 1. Meets the requirements of EN 54-5:2000 at Class A2S	1163c/03
16-051 Addressable A1R Heat Detector (12-030 base and 12-031 base) <i>Note:</i> 1. Meets the requirements of EN 54-5:2000 at Class A1R	1163c/04

Bases:

12-030	Shallow Base
12-031	Deep Base

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E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213w to EN 54-7:2000 +A1:2002 + A2:2006 EN 54-25:2008

Certificate No: 1213e to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 1213n to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-17: 2005

Smoke Detectors

Certificated Products	LPCB Ref. No.
200-404 Odyssey Conventional Optical Smoke Detector (200-300 and 200-301 mounting base)	1213e/01
200-503 Odyssey Analogue Addressable Optical Smoke Detector (200-111 mounting base)	1213e/02
100-2100V EURV-P Intelligent Optical Smoke Detector (100-3000V Base) <i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2	1213e/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
100-2210V	Optical only level 3 Optical only level 4 - Low EURVC-P Conventional Optical Smoke Detector (100-3500V, 100-3511v and 100-3510V bases)	1213e/04
100-2101V	EURV-PI Intelligent Optical Smoke Detector with Short Circuit Isolator (100-3000V Base)	1213n/01
EUW-PA-01	Note:1. Meets the requirements of EN 54-7 at the following sensitivity settings:Optical only level 1 - HighOptical only level 2Optical only level 3 Optical only level 4 - Low Intelligent Wireless Optical Smoke Detector (EUW-WAB Base)	1213w/01
EUW-PA-02	Notes: 1. Meets the requirements of EN 54-7 in the normal sensitivity setting 2. The device must be used with the following batteries only: - CR123A (3 Vdc) - Main Battery - CR2032A (3 Vdc) - Secondary Battery Intelligent Wireless Addressable Optical Smoke Detector (EUW-WAB Base)	1213W/02

Bases

STB-4SE-EV	Standard Deep Mounting base
STB-4SE-24VR	Relay Mounding base
EUW-WAB	Wireless Adaptor Base
100-3500V	Conventional Standard Base
100-3511V	Conventional Resistor Base
100-3510V	Conventional Diode Base
100-3000V	Standard Mounting Base

Certificate No: 1213x to EN54-5:2000 + A1:2002 EN 54-25:2008

Certificate No: 1213r to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Certificate No: 1213d to EN 54-5: 2000 + A1: 2002

Certificate No: 1213x to EN 54-5: 2000 + A1: 2002 & EN 54-25: 2008

Certificated Products		LPCB Ref. No.
200-400	Odyssey Conventional Class A1R Heat Detector (200-300 mounting base)	1213d/01
200-401	Note: 1. Meets the requirements of EN 54: Part 5 - Class A1R Odyssey Conventional Class BR Heat Detector (200-300 mounting base)	1213d/02
200-402	Note: 1. Meets the requirements of EN 54: Part 5 - Class BR Odyssey Conventional Class CR Heat Detector (200-300 mounting base)	1213d/03
200-403	Note: 1. Meets the requirements of EN 54: Part 5 - Class CR Odyssey Conventional Class CS Heat Detector (200-300 mounting base)	1213d/04
200-501	Note: 1. Meets the requirements of EN 54: Part 5 - Class CS Odyssey Analogue Addressable Class A2S Heat Detector (200-111 mounting base)	1213d/05
200-502	Odyssey Analogue Addressable Class CS Heat Detector (200-111 mounting base)	1213d/06
100-2200V	EURV-H-A1R Intelligent Rate of Rise Heat Detector (100-3000V Base)	1213d/07
100-2505V	Note: 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS EURV-H Conventional Class P Heat Detector 100-3511v and 100-3510V bases)	1213d/08
100-2201V	Note: 1. Meets the requirements of EN 54-5 for Class A1R and Class B EURV-H-A1RI Intelligent Class P Heat Detector with Short Circuit Isolator (100-3000V Base)	1213r/01
EUW-TA-01	Note: 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS Intelligent Wireless Heat Detector (EUW-WAB Base)	1213x/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

EUW-TA-02	<p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5 for Class A1R 2. The device must be used with the following batteries only: <ul style="list-style-type: none"> - CR123A (3 Vdc) - Main Battery - CR2032A (3 Vdc) - Secondary Battery <p>Intelligent Wireless Addressable Class P Heat Detector (EUW-WAB Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5 for Class A1R and BS 2. The device must be used with the following battery type only: <ul style="list-style-type: none"> CR123A (3 Vdc) - Primary and Secondary Battery 	1213x/02
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Bases:

STB-4SE-EV	Standard Deep Mounting base
EUW-WAB	Wireless Adaptor Base
100-3000V	Low Profile Adaptor Base

Certificate No: 1213c to EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Certificate No: 1213p to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 & CEA 4021: 2003

Certificate No: 1213s to EN54-5: 2000 + A1: 2002 & EN 54-7:2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 1213y to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2 2006, EN 54-25: 2008 & CEA4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

LPCB Ref.
No.

200-505	Odyssey Analogue Addressable Multisensor Detector (200-111 mounting base)	1213c/01
100-2401V	<p>EURV-PHI Intelligent Multi-Criteria Detector with Short Circuit Isolator (100-3000V Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: <ul style="list-style-type: none"> Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: <ul style="list-style-type: none"> Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following sensitivity settings: <ul style="list-style-type: none"> Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low 	1213p/01
100-2400V	<p>EURV-PH Intelligent Multi-Criteria Detector (100-3000V Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: <ul style="list-style-type: none"> Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: <ul style="list-style-type: none"> Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: <ul style="list-style-type: none"> Optical only level 1 - High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 - Low sensitivity 	1213s/01
EUW-MA-01	<p>Intelligent Wireless Multi-Criteria Detector (EUW-WAB Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting 3. The device must be used with the following batteries only <ul style="list-style-type: none"> • CR123A (3 Vdc) - Main Battery 	1213y/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
EUW-MA-02	<ul style="list-style-type: none">CR2032A (3 Vdc) - Secondary Battery Intelligent Wireless Addressable Multi-Criteria Detector (EUW-WAB Base) Notes: <ol style="list-style-type: none">Meets the requirements of EN 54-5 for Class A1RMeets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - LowThe device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	1213y/02

Bases:

200-111 Odyssey mounting base
100-3000V Low profile adaptor base
EUW-WAB Wireless Adaptor Base

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Certificate No: 512a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
EA318-2	Conventional 2 wire photoelectric smoke detector (P/N852001 base)	512a/01
EA318-2(LED)	Conventional 2 wire photoelectric smoke detector with remote LED output (P/N854001 base)	512a/02
EA318-4-12	Conventional 4 wire photoelectric smoke detector (P/N854001 base)	512a/03
EA318-4-24	Conventional 4 wire photoelectric smoke detector (P/N854001 base)	512a/04
EA318-2V	Conventional 2 wire photoelectric smoke detector (P/N852001 base)	512a/05
EA318-2-LED-V	Conventional 2 wire photoelectric smoke detector with remote LED output (P/N852001 base)	512a/06
EA318-4V-12	Conventional 4 wire photoelectric smoke detector (P/N854001 base)	512a/07
EA318-4V-24	Conventional 4 wire photoelectric smoke detector	512a/08

Bases:

P/N854001 4-wire detector base
P/N852001 2-wire detector base

Certificate No: 512b to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, CEA4021: 2003

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
EA318-2H	Conventional 2 wire photoelectric smoke and heat detector (P/N852001 base)	512b/01
EA318-2H-LED	Conventional 2 wire photoelectric smoke and heat detector with remote LED output (P/N854001 base)	512b/02
EA318-4H-12	Conventional 4 wire photoelectric smoke and heat detector (P/N854001 base)	512b/03
EA318-4H-24	Conventional 4 wire photoelectric smoke and heat detector (P/N854001 base)	512b/04
EA318-2HV	Conventional 2 wire photoelectric smoke and heat detector (P/N852001 base)	512b/05
EA318-2H-LED-V	Conventional 2 wire photoelectric smoke and heat detector with remote LED output	512b/06

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products

EA318-4HV-12 EA318-4HV-24	(P/N8524001 base) Conventional 4 wire photoelectric smoke and heat detector (P/N854001 base) Conventional 4 wire photoelectric smoke and heat detector (P/N854001 base)	LPCB Ref. No. 512b/07 512b/08
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Bases:

P/N854001 4-wire detector base
P/N852001 2-wire detector base

Certificate No: 512d to EN 54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
EA323-2	Conventional 2 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/01
EA323-2	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/02
EA323-2L	Conventional 2 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector with LED output (P/N854001 base)	512d/03
EA323-2L	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (P/N854001 base)	512d/04
EA323-4	Conventional 4 wire 12VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/05
EA323-4	Conventional 4 wire 12VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/06
EA323-4	Conventional 4 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/07
EA323-4	Conventional 4 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/08
EA323-2V(A2S)	Conventional 2 wire 24 VDC class A2S fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/09
EA323-2V(A2R)	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N852001 base)	512d/10
EA323-2LV(A2S)	Conventional 4 wire 12VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/11
EA323-2LV(A2R)	Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (P/N852001 base)	512d/12
EA323-4V-12(A2S)	Conventional 4 wire 12VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/13
EA323-4V-12(A2R)	Conventional 4 wire 12VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/14
EA323-4V-24(A2S)	Conventional 4 wire 24VDC class A2S fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/15
EA323-4V-24(A2R)	Conventional 4 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector (P/N854001 base)	512d/16

Bases:

P/N852001 2-Wire detector base
P/N854001 4-Wire detector base
EB7501 base

Certificate No: 512k to EN 54-12: 2015

Beam Detectors

Certificated Products

		LPCB Ref. No.
TR6100	Conventional Reflective Beam Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings: - Level 1: 2.6 dB High sensitivity - Level 2: 3.8 dB Medium sensitivity - Level 3: 5.8 dB Low sensitivity 2. Suitable for use at the following separation ranges: - Span 1: 8 to 20 meters Short Path (1 x mirror reflector required) - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required) - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required) - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)	512k/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Accessories

Mounting Bracket
BT7130-R 1 x Mirror Reflector
BT7130-R 4 x Mirror Reflector

FARE

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Certificate No: 1549b to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products

OC-OIEx Conventional ATEX Optical Smoke Detector

LPCB Ref.
No.
1549b/01

Base:

S05Ex Base

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E-mail: sales@ffeuk.com • Website: www.ffeuk.com

Certificate No: 1204a to EN 54-10: 2002 + A1: 2005

Commercial detectors -1 - 1 - 4

Certificated Products

		LPCB Ref. No.
16511	Talentum Conventional IR2 (Exd) Flameproof Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/05
16519	Talentum Conventional IR3 (Exd) Flameproof Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/06
16521	Talentum Conventional UV/IR2 (Exd) Flameproof Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/07
16571	Talentum Conventional IR2 (IS) Intrinsically Safe Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/08
16579	Talentum Conventional IR3 (IS) Intrinsically Safe Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/09
16581	Talentum Conventional IR2 Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/10
16589	Talentum Conventional IR3 Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/11
16591	Talentum Conventional UV/IR2 Flame Detector (07127 Bracket) <i>Note:</i> 1.) Meets the requirements of EN 54-10: 2002 at Class 1 only	1204a/12

07127	Adjustable Mounting Bracket
45681-200	Mounting base - Produced by Apollo Fire Detectors
45681-201	Mounting base with diode - Produced by Apollo Fire Detectors
45681-209	Deep base - Produced by Apollo Fire Detectors
45681-210	Mounting base - Produced by Apollo Fire Detectors

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Certificate No: 331f to EN 54-3: 2000 + A1: 2002 + A2: 2006, EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005 and CEA 4021: July 2003 (en)

Certificate No: 331n to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005 and CEA 4021: July 2003 (en)

Certificate No: 331g to EN 54-3: 2000 + A1: 2002 + A2: 2006, EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: July 2003 (en)

Certificate No: 331p to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: July 2003 (en)

Multi-Sensor Detectors

Certificated Products

		LPCB Ref. No.
205-0001	<p>Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator and sounder.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature.</i> 2. <i>Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement.</i> 3. <i>Approved at the following tones - SP1 Continuous 970Hz SP2 Pulsed 970Hz 1s on 1s off SP3 Dual Tone 970Hz 0.25s , 800Hz 0.25s SP4* Sweep Up 800-970Hz over 1s SP5 Slow Whoop 500-1200Hz over 3s, 0.5s off SP6* Sweep Down 1200-500Hz over 1s SP7 Dual French 550Hz 0.1s, 440Hz 400ms * Not available if the I/O facility is used.</i> 	331f/01
205-0012	<p>Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator and sounder/strobe.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature.</i> 2. <i>Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement.</i> 3. <i>Approved at the following tones - SP1 Continuous 970Hz SP2 Pulsed 970Hz 1s on 1s off SP3 Dual Tone 970Hz 0.25s , 800Hz 0.25s SP4* Sweep Up 800-970Hz over 1s SP5 Slow Whoop 500-1200Hz over 3s, 0.5s off SP6* Sweep Down 1200-500Hz over 1s SP7 Dual French 550Hz 0.1s, 440Hz 400ms * Not available if the I/O facility is used.</i> 	331f/02
204-0001	<p>4. <i>The strobe function is not approved.</i></p> <p>Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder (45-0048-202-01 Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperature</i> 2. <i>Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement</i> 3. <i>Meets the requirements of EN 54-3: 2001 at the following tones -</i> 	331g/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
204-0012	<p>SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970Hz</p> <p>Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector with Type A Sounder & Strobe</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperatureMeets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancementMeets the requirements of EN 54-3: 2001 at the following tones - SP1 Continuous 970Hz SP2 Alternating tone at 800/970Hz SP3 Sweep Up 800-970HzThe strobe function is not approved to EN 54-23:2010	331g/03
205-0003	<p>Sita analogue addressable optical smoke and heat multisensor detector with short circuit isolator.</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature.Meets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement.	331n/01
204-0003	<p>Twinflex Multipoint ASD Conventional Optical Smoke and Heat Multisensor Detector (45-0048-202-01 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-5:2000 at the following settings: HM1 Class A1 standard temperature rate of rise enhanced HM2 Class A1 standard temperature, fixed temperature HM3 Class C standard temperature, fixed temperatureMeets the requirements of EN 54-7:2000 at the following settings: SM1 Standard optical sensitivity with high thermal enhancement SM2 Standard optical sensitivity with normal thermal enhancement	331p/02

Bases

45-0048-202 ASD Base
45-0048-202-01 Standard Base
25-0065-202 Base extension
45-0306-202 Twinflex Multipoint Base
200-0014 Shallow Base

Finder Elektronik A.S.

Liman Mah., 6. Sok., No: 10 07070, Konyaalti, Antalya, Turkey

Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88

E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 928a-(cl-1) to EN 54-5: 2000 + A1: 2002 and EN 54 -17: 2005

Certificate No: 928d-(cl-1) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products		LPCB Ref. No.
FFT200A	<p>Analogue Addressable Class P Heat Detector with Short-Circuit Isolator (FF BS200A Base)</p> <p>Note:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928a/02
FF T1000	<p>Conventional Class P, heat detector (FF UBR200 and FF BRD200 bases)</p>	928d/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>FFT200AL</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R and Class B. Addressable Class P Heat Detector (FF BS200A Base)</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS</p>	928d/03

Bases

FF BS200	Mounting base (with link resistor)
FF UBR200	Universal adaptor base with resistor
FF BRD200	Universal adaptor base with resistor and Schottky diode
FF BS200A	Low Profile Adaptor Base

Ancillaries

FF BDP	Single prism reflector
FF BDX	Set of 4 x prism reflectors

Certificate No: 928b-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54 -17: 2005
 Certificate No: 928e-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006
 Certificate No: 928k-(cl-5) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Smoke Detectors
Certificated Products

Certificated Products	LPCB Ref. No.
<p>FF O200A</p> <p>Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (FF BS200A Base)</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low</p>	928b/02
<p>FF O1000</p> <p>Conventional photo smoke detector (FF UBR200 and FF BRD200 bases)</p>	928e/02
<p>FF O200AL</p> <p>Addressable Photoelectric Smoke Detector (FF BS200A Base)</p> <p><i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only - level 1 - High Optical only - level 2 Optical only - level 3 Optical only - level 4 - Low</p>	928e/03
<p>FF SG100</p> <p>Wireless optical smoke detector (WAB100 base)</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-7 in the normal sensitivity setting 2. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery</p>	928k/01

Bases

FF BS200	Mounting base (with link resistor)
FF UBR200	Universal adaptor base with resistor
FF BRD200	Universal adaptor base with resistor and Schottky diode
WAB100	Wireless Adaptor Base
FF BS200A	Low Profile Adaptor Base

Certificate No: 928c-(cl-1) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54 -17: 2005 & CEA 4021: 2003
 Certificate No: 928f-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Multi-sensor Detectors
Certificated Products

Certificated Products	LPCB Ref. No.
<p>FF OT200A</p> <p>Addressable Multi-Criteria Detector with Short-Circuit Isolator (FF BS200A Base)</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response</p>	928c/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

FF OT200AL	<p><i>Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response</i> <i>Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response</i> 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low Addressable Photo & Class A1R Heat Detector (FF BS200A Base)</p> <p>Notes: 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: <i>Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response</i> <i>Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response</i> <i>Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response</i> <i>Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response</i> 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only - level 1 - High sensitivity Optical only - level 2 Optical only - level 3 Optical only - level 4 - Low sensitivity</p>	928f/02
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Bases

FF BS200	Mounting base (with link resistor)
FF BS200A	Low Profile Adaptor Base

Certificate No: 928j-(cl-5) to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008

Point Heat Detectors

Certificated Products

LPCB Ref.
No.

FF SG350	<p>Wireless heat detector (WAB100 base)</p> <p>Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. The device must be used with the following batteries only: • CR123A (3 Vdc) - main battery • CR2032A (3 Vdc) - secondary battery</p>	928j/01
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Bases:

WAB100	Wireless Adaptor Base
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Certificate No: 928m-(cl-5) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products

LPCB Ref.
No.

FF SG200	<p>Wireless multi-criteria detector (WAB100 base)</p> <p>Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 in the normal sensitivity setting 3. The device must be used with the following batteries only: • CR123A (3 Vdc) - main battery • CR2032A (3 Vdc) - secondary battery</p>	928m/01
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Bases:

WAB100	Wireless Adaptor Base
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Certificate No: 1283a-(cl-1) to EN 54-12:2002

Beam Detectors
Certificated Products

		LPCB Ref. No.
FF BD1000	Conventional Optical Beam Smoke Detector (Double Pass) Notes: 1. Meets the requirements of EN 54-12 at the following sensitivity settings only: 18% obscuration high sensitivity at between 5-20m 30% obscuration medium sensitivity at between 20-100m 2. Suitable for use with FF BDP prismatic reflector over distances from 5 to 50m 3. Suitable for use with FF BDX set of reflectors over distances from 50 to 100m	1283a/01

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

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Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450c-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006
Certificate No: 1395a-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificated Products

		LPCB Ref. No.
FF O600	Conventional Smoke Detector (FF BS600 Base) Notes: Meets the requirements of EN 54-7 for 1 sensitivity setting Base: FF BS600	1395a/01
FF O500	Intelligent Addressable Photo Smoke Detector (Base FF BS500)	1450c/01
FF BS500 – Standard Base		

Certificate No: 1450d-(cl-1) to EN 54-5: 2000 + A1: 2002
Certificate No: 1395b-(cl-1) to EN 54-5 2000 + A1: 2002

Certificated Products

		LPCB Ref. No.
FF T600	Conventional Heat Detector (FF BS600 Base) Notes: Meets the requirements of EN 54-5 for Class A2R Base FF BS600	1395b/01
FF T500	Intelligent Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector (Base FF BS500) FF BS500 Standard Base	1450d/01

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174a-(cl-6) to EN 54-7:2000 + A1:2002 + A2:2006

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Smoke Detectors Certificated Products

FST-6627 Addressable Optical Smoke Detector (FST-6617 base) (branded as FST)
Note:
1. *Meets the requirements of EN 54-7:2000 at the following sensitivities:*
- *Mode 0 (High)*
- *Mode 1 (Factory Setting)*
- *Mode 2*
- *Mode 3 (Low)*

**LPCB Ref.
No.**
1174a/02

Bases

FST-6617 Addressable mounting base

Certificate No: 1174b-(cl-6) to EN 54-5:2000 + A1:2002

Heat Detectors Certificated Products

FST-6637 Addressable Heat Detector (FST-6617 base) (branded as FST)
Note:
1. *Meets the requirements of EN 54-5:2000 at class A1R and A2*

**LPCB Ref.
No.**
1174b/02

Bases

FST-6617 Addressable mounting base

Certificate No: 1174f-(cl-6) to EN 54-5:2000 + A1:2002; EN 54-7:2000+A1:2002+A2:2006; CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors Certificated Products

FST-6647 Addressable Smoke and Heat Detector (FST-6617 base) (branded as FST)
Notes:
1) *Meets the requirements of EN 54-5:2000 at Class A1R and A2*
2) *Meets the requirements of EN 54-7:2000 at the following sensitivity settings*
- *Smoke Mode 2 and A1R*
- *Smoke Mode 2 and A2*
- *Smoke Mode 2 (Smoke only), heat disabled*

**LPCB Ref.
No.**
1174f/01

Bases

FST-6617 Addressable mounting base

Fireguard Safety Equipment Co Ltd

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 512a-(cl-4) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 1138a-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificated Products

FG-413SD-4 Conventional 4-WIRE Photoelectric Smoke Detector with Relay Output (B-01 base)
FG-413SD-2 Conventional 2-WIRE Photoelectric Smoke Detector with Remote LED (B-01 base)
Fireguard FG318-2L Conventional 2 wire photoelectric smoke detector with remove LED output (Fireguard
P/N FG854001 base)

**LPCB Ref.
No.**
1138a/03
1138a/04
512a/02

Bases

Fireguard P/N FG854001 4 wire detector base
B-01 Standard Base

Certificate No: 512d-(cl-4) to EN54-5: 2000 + A1: 2002

Certificated Products

Fireguard FG323-2L Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (Fireguard P/N FG854001 base)

LPCB Ref. No.
512d/04

Bases

Fireguard P/N FG854001 4 wire detector base

Certificate No: 1330a-(cl-3) to EN 54-12:2015

Certificated Products

FG-BD100 Conventional Reflective Beam Detector
Notes:
1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:
- Level 1: 2.6 dB High sensitivity
- Level 2: 3.8 dB Medium sensitivity
- Level 3: 5.8 dB Low sensitivity
2. Suitable for use at the following separation ranges:
- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)
- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)
- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)
- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

LPCB Ref. No.
1330a/01

Accessories:

Mounting Bracket
FG-BD100-R 1 x Mirror Reflector
FG-BD100-R 4 x Mirror Reflector

Firelite by Honeywell (Pittway Systems Technology Group (Europe) Ltd)

Honeywell Life Safety Systems, Charles Avenue, Burgess Hill, West Sussex RH15 9UF, United Kingdom
Tel: +44 1444 230 300 • Fax: +44 1444 230 888
E-mail: sales@morleyias.co.uk

Certificate No: 550a to EN 54-7: 2000 + A1: 2002
Certificate No: 550b to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 and CEA 4021: 1999
Certificate No: 550c to EN 54-5: 2000 + A1: 2002

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

FL/1003 Conventional photoelectric smoke detector (FL/1000B base)
FL/1002 Conventional optical/thermal detector (FL/1000B base)
Notes:
1. Meets the requirements of EN54-5 at class A1R at pre-set sensitivity.
FL/1005 Conventional Class A1R rate of rise heat detector (FL/1000B base)

LPCB Ref. No.
550a/02
550b/02
550c/03

Bases

FL/1000B standard base

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: info@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 928j-(cl-8) to EN 54-5: 2000 + A1: 2002 & EN 54-25: 2008
Certificate No: 928d-(cl-13) to EN 54-5:2000 + A1:2002

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Heat Detectors

Certificated Products

		LPCB Ref. No.
FSIRH	Generation 2 Addressable Class P Heat Detector (FSIDB Base) Note: 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928d/03
FSRHD2	Wireless Intelligent Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. The device must be used with the following batteries only: <ul style="list-style-type: none">CR123A (3 Vdc) - Main BatteryCR2032A (3 Vdc) - Secondary Battery	928j/01

Bases

WAB100 - Wireless adaptor base

FSIDB - Low profile adaptor base

Certificate No: 928k-(cl-8) to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-25: 2008

Certificate No: 928e-(cl-13) to EN 54-7:2000 + A1:2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
FSIOS	Generation 2 Addressable Optical Smoke Detector (FSIDB Base) Note: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928e/03
FSROD2	Wireless Intelligent Optical Smoke Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-7 in the normal sensitivity setting 2. The device must be used with the following batteries only: - CR123A (3 Vdc) - Main Battery - CR2032A (3 Vdc) - Secondary Battery	928k/01

Bases:

WAB100 - Wireless Adaptor Base

FSIDB - Low profile adaptor base

Certificate No: 928m-(cl-8) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 & CEA4021: 2003

Certificate No: 928f-(cl-9) to EN 54-5:2000 + A1:2002 & EN 54-7:2000 + A1:2002 + A2:2006 & CEA4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
FSIMS	Generation 2 Addressable Multi-Criteria Smoke Detector & Class A1R Heat Detector (FSIDB Base) Notes: 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High sensitivity Optical only level 2 Optical only level 3 Optical only level 4 - Low sensitivity	928f/02

Certificated Products

FSRMS2 Wireless Intelligent Multi-Criteria Detector (WAB100 Base)

LPCB Ref. No.
928m/01

Notes:

1. *Meets the requirements of EN 54-5 for Class A1R*
2. *Meets the requirements of EN 54-7 in the normal sensitivity setting*
3. *The device must be used with the following batteries only*
 - *CR123A (3 Vdc) - Main Battery*
 - *CR2032A (3 Vdc) - Secondary Battery*

Bases

WAB100 - Wireless Adaptor Base
FSIDB - Low profile adaptor base

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548c-(cl-3) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
FX9103	Conventional heat detector Class A1R (DZ-03 base)	548c/01
FX9103I	Intelligent Rate of Rise Heat Detector Class A1R (DZ-03 base)	548c/02
FX9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (FX-01 Base) <i>1. Meets the requirements of EN 54-5:2000 for Class A1R, A2S & BS</i>	548c/03
FXI9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (FX-01 Base) <i>Note:</i> <i>1. Meets the requirements of EN 54-5:2000 for Class A1R, A2S & BS</i>	548c/04

Bases:

DZ-03 Standard detector base
FX-01 Standard Base

Certificate No: 548d-(cl-3) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
FX9102	Conventional Photoelectric Smoke Detector (DZ-03 base)	548d/01
FX9102I	Intelligent Photoelectric Smoke Detector (DZ-03 base)	548d/02
FX9102E	Conventional Photoelectric Smoke Detector (FX-01 Base) <i>Note:</i> <i>1. Meets the requirements of EN 54-7:2000 at sensitivity level 1 (default) setting only</i>	548d/03
FXI9102E	Intelligent Photoelectric Smoke Detector (FX-01 Base) <i>Note:</i> <i>1. Meets the requirements of EN 54-7:2000 at sensitivity level 1 (default) setting only</i>	548d/04

Bases:

DZ-03 Standard detector base
FX-01 Standard Base

Certificate No: 548k-(cl-2) to EN 54-12: 2015

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Beam Detectors

Certificated Products

FX9105RI	Intelligent optical beam detector Notes: 1) Meets the requirements of EN 54-12 at the following sensitivity settings: Level 1 - 1.61 dB Level 2 - 2.31dB	LPCB Ref. No. 548k/01
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Certificate No: 548q-(cl-2) to EN 54:5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

FX9101	Conventional Optical Smoke and Heat Multisensor Detector (FX9907, DZ-03D & DZ-03 Bases) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity setting Mode 12. Meets the requirements of EN 54-5: 2000 at Class A2R	LPCB Ref. No. 548q/01
FX9101I	Intelligent Optical Smoke and Heat Multisensor Detector (DZ-03 Base) Notes: 1. Meets the requirements of EN 54-7:2000 at sensitivity setting Mode 12. Meets the requirements of EN 54-5: 2000 at Class A2R	548q/02
FX9101E	Conventional Combination Heat / Photoelectric Smoke Detector (FX-01 Base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R	548q/03
FXI9101E	Intelligent Combination Heat / Photoelectric Smoke Detector (FX-01 Base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R	548q/04

Bases:

DZ-03	Standard Base
DZ-03D	Diode Base
FX9907	Active EOL Base
FX-01	Standard Base

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom

Tel: 00447708000050

E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426b-(cl-5) to EN 54-5: 2000 + A1: 2002

Certificated Products

FRN 20	Intelligent Addressable Fire Alarm Heat Detector (Base DZ-912) Notes: Meets the requirements of EN 54-5 for Class A2	LPCB Ref. No. 1426b/01
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Base

DZ-912

Certificate No: 1426c-(cl-5) to EN 54-7:2000 + A1: 2002 + A2: 2006

Certificated Products

FRN 30	Intelligent Addressable Fire Alarm Smoke Detector (DZ-912 Base)	LPCB Ref. No. 1426c/01
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Certificated Products

LPCB Ref.
No.

Notes:
Meets the requirements of EN 54-7 for 1 sensitivity setting

Gent By Honeywell (Novar Systems Ltd)

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E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Middle East Sales Enquiries:

E-mail: gent.export@honeywell.com

Certificate No: 042bd to EN54-7: 2000+A1: 2002+A2: 2006, EN54-17: 2005, EN54-18: 2005

Certificate No: 042az to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors

Certificated Products

LPCB Ref.
No.
042bd/01

S4-715

S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator
(S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K)

Note:

- 1) Meets the requirements of EN 54: Part 7 at the following settings:
- State 0 - Medium optical
 - State 3 - High sensitivity
 - State 4 - Medium optical (no spike)
 - State 8 - Delayed medium optical

Bases:

S4-700 Standard base
S4-FLUSH Semi-flush fixing kit
S4BK-700 Standard base (black)
S4-700-34K Fusion Adaptor base

Certificate No: 042ak to EN 54-5: 2000 + A1: 2002, EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005 and EN 54-18: 2005

Certificate No: 042be to EN54-5: 2000+A1: 2002, EN54-17: 2005, EN54-18: 2005

Certificate No: 042ay to EN 54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products

LPCB Ref.
No.
042be/01

S4-720

S-Quad Analogue Addressable Class P Heat Detector with Short Circuit Isolator
(S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K)

Note:

- Meets the requirement of EN 54-5 at the following settings:
- State 0 - Class A1 heat
 - State 5 - Class B heat
 - State 6 - Class BS heat
 - State 7 - Class A2S heat
 - State 13 - Class A2 heat

Bases:

17800-01 standard base
17801-01 standard base with diode
17800-02 low profile base
17801-02 low profile base with diode
S4-700 standard base
S4-FLUSH semi-flush fixing kit
S4BK-700 standard base (black)
S4-700-34K Fusion Adapter base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 042an to EN 54-5: 2000 + A1: 2002 + A2: 2006, EN 54-5: 2000 + A1: 2002, EN 54-3: 2001 + A1:2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005 and CEA 4021: 2003

Certificate No: 042bf to EN54-5: 2000+A1: 2002, EN54-7: 2000+A1: 2002+A2: 2006, EN54-17: 2005, EN54-18: 2005

Certificate No: 042bv to EN54-3: 2001 + A1: 2002 + A2: 2006, EN54-5: 2000 + A1: 2002, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Certificate No: 042ca to EN54-3: 2001 + A1: 2002 + A2: 2006, EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005,

Certificate No: 042bu to EN54-3: 2001 + A1: 2002 + A2: 2006, EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005,

Certificate No: 042bz to EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005,

Certificate No: 042bw to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Certificate No: 042ak to EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005,

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
S4-780-S	Analogue Addressable Class P Heat Sensor with Sounder with Short Circuit Isolator (S4-700 Standard Base and S4-700-34K) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Class A1 heat - State 5 - Class B heat - State 6 - Class BS heat - State 7 - Class A2S heat - State 13 - Class A2 heat	042ak/04
S4-710	S-Quad analogue addressable optical smoke and Class A1 heat multisensor detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K) Note: 1) Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spoke) / Class A1 heat State 5 - Medium optical / Class B heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 8 - Delayed medium optical / Class A1 heat State 11 - Low sensitivity / Class B heat* State 12 - Off / Class A1 heat*	042bf/01
S4-711	*Does not meet the requirement of EN 54-7 S-Quad analogue addressable dual optical smoke and Class P heat multisensor detector (S4-700 Standard base with or without S4-FLUSH semi-flush fixing kit and S4-700-34K) Notes: 1) Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spoke) / Class A1 heat State 5 - Medium optical / Class B heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 8 - Delayed medium optical / Class A1 heat State 11 - Low sensitivity / Class B heat* State 12 - Off / Class A1 heat*	042bf/02
S4BK-711	*Does not meet the requirement of EN 54-7 S-Quad Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor (Black Body Variant) (S4BK-700 base with or without S4-FLUSH semi-flush fixing kit) Note: 1.Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spoke) / Class A1 heat State 5 - Medium optical / Class B heat State 6 - Low sensitivity / Class BS heat*	042bf/03

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COMMERCIAL DETECTORS

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<p style="text-align: center;">State 7 - Medium optical / Class A2S heat State 8 - Delayed medium optical / Class A1 heat State 11 - Low sensitivity / Class B heat* State 12 - Off / Class A1 heat*</p> <p>*Does not meet the requirement of EN 54-7</p> <p>Analogue Addressable Dual Optical Smoke and Class P Heat and CO Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K)</p> <p>Notes:</p> <ol style="list-style-type: none"> Meets the requirements of EN 54-3 at the following sounder tone settings: High- Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 1 - High sensitivity / Class A1 heat State 2 - Low sensitivity / Class A1 heat State 4 - Medium optical (no spike) / Class A1 heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 9 - Class A1 heat* State 11 - Low sensitivity / Class B heat State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <ol style="list-style-type: none"> The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bu/04
<p>Analogue Addressable Dual Optical Smoke and Class P Heat and CO Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K)</p> <p>Notes:</p> <ol style="list-style-type: none"> Meets the requirements of EN 54-3 at the following sounder tone settings: High- Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 1 - High sensitivity / Class A1 heat State 2 - Low sensitivity / Class A1 heat State 4 - Medium optical (no spike) / Class A1 heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 9 - Class A1 heat* State 11 - Low sensitivity / Class B heat State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <ol style="list-style-type: none"> The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) - High power setting - (Category C: C-6-16 and Category O: None) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bu/05
<p>Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K)</p> <p>Notes:</p> <ol style="list-style-type: none"> Meets the requirements of EN 54-3 at the following sounder tone settings: High- Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spike) / Class A1 heat State 5 - Medium optical / Class B heat 	042bu/06

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	<p>State 6 - Low sensitivity / Class BS heat*</p> <p>State 7 - Medium optical / Class A2S heat</p> <p>State 8 - Delayed medium optical / Class A1 heat</p> <p>State 11 - Low sensitivity / Class B heat*</p> <p>State 12 - Off / Class A1 heat*</p> <p>*Does not meet the requirements of EN 54-7</p> <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Category (light pattern details)- High power setting - (Category C: C-3-14 and Category O: O-4.5-14)- Medium power setting - (Category C: C-3-13 and Category O: O-4-13)- Low power setting - (Category C: C-3-10 and Category O: None)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	
S4-711-V-VAD-LPW	<p>Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following sounder tone settings:</p> <ul style="list-style-type: none">High- Continuous 933 HzAlternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs <p>2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <p>State 0 - Medium optical / Class A1 heat</p> <p>State 1 - High sensitivity / Class A1 heat</p> <p>State 2 - Low sensitivity / Class A1 heat*</p> <p>State 3 - High sensitivity / Class A1 heat</p> <p>State 4 - Medium optical (no spike) / Class A1 heat</p> <p>State 5 - Medium optical / Class B heat</p> <p>State 6 - Low sensitivity / Class BS heat*</p> <p>State 7 - Medium optical / Class A2S heat</p> <p>State 8 - Delayed medium optical / Class A1 heat</p> <p>State 11 - Low sensitivity / Class B heat*</p> <p>State 12 - Off / Class A1 heat*</p> <p>*Does not meet the requirements of EN 54-7</p> <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Category (light pattern details)- Low power setting - (Category C: C-3-10 and Category O: None)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	042bu/07
S4-711-V-VAD-HPW	<p>Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Speech, Sounder and White Visual Alarm (S4-701 Base and S4-700-34K)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following sounder tone settings:</p> <ul style="list-style-type: none">High- Continuous 933 HzAlternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs <p>2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat- State 11 - Low sensitivity / Class B heat*- State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Category (light pattern details)- High power setting - (Category C: C-6-16 and Category O: None)- Medium power setting - (Category C: C-3-14 and Category O: O-5-14)- Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	042bu/08
S4-711-V-VAD-LPR	<p>Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Speech, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K)</p>	042bu/09

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Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:
 - High- Continuous 933 Hz
 - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs
2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:
 - State 0 - Medium optical / Class A1 heat
 - State 2 - Low sensitivity / Class A1 heat*
 - State 3 - High sensitivity / Class A1 heat
 - State 4 - Medium optical (no spike) / Class A1 heat
 - State 5 - Medium optical / Class B heat
 - State 6 - Low sensitivity / Class BS heat*
 - State 7 - Medium optical / Class A2S heat
 - State 8 - Delayed medium optical / Class A1 heat
 - State 11 - Low sensitivity / Class B heat*
 - State 12 - Off / Class A1 heat*

*Does not meet the requirements of EN 54-7

- | | | |
|--------------------|---|----------|
| S4BK-711-V-VAD-HPR | <ol style="list-style-type: none"> 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): <ul style="list-style-type: none"> - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C S-Quad Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor with Speech, Sounder and Red Visual Alarm (Black Body Variant) (S4BK-700 Base and S4BK-705 Base) | 042bu/10 |
|--------------------|---|----------|

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:
 - High- Continuous 933 Hz
 - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs
2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:
 - State 0 - Medium optical / Class A1 heat
 - State 2 - Low sensitivity / Class A1 heat*
 - State 3 - High sensitivity / Class A1 heat
 - State 4 - Medium optical (no spike) / Class A1 heat
 - State 5 - Medium optical / Class B heat
 - State 6 - Low sensitivity / Class BS heat*
 - State 7 - Medium optical / Class A2S heat
 - State 8 - Delayed medium optical / Class A1 heat
 - State 11 - Low sensitivity / Class B heat*
 - State 12 - Off / Class A1 heat*

*Does not meet the requirements of EN 54-7

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|------------------|--|----------|
| S4-720-V-VAD-HPR | <ol style="list-style-type: none"> 3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): <ul style="list-style-type: none"> - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4BK-700 base and S4BK-705 IP Plate to achieve IP21C Analogue Addressable Class P Heat Sensor with Voice, Sounder and Red Visual Alarm (S4-701 Base and S4-700-34K) | 042bv/01 |
|------------------|--|----------|

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:
 - High - Continuous 933 Hz
 - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs
2. Meets the requirements of EN 54-5 at the following settings:
 - State 0 - Class A1 heat
 - State 5 - Class B heat
3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following:
 - Category (light pattern details)
 - @ High power setting - (Category C: C-3-14 and Category O: O-4.5-14)
 - @ Medium power setting - (Category C: C-3-13 and Category O: O-4-13)
 - @ Low power setting - (Category C: C-3-10 and Category O: None)
 - Synchronization
 - Flash rate 2 seconds (0.5Hz)

- | | | |
|------------------|---|----------|
| S4-720-V-VAD-HPW | <ol style="list-style-type: none"> 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C Analogue Addressable Class P Heat Sensor with Voice, Sounder and White Visual Alarm (S4-701 base and S4-700-34K) | 042bv/02 |
|------------------|---|----------|

Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings:

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No.

	<p>High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs</p> <p>2. Meets the requirements of EN 54-5 at the following settings: State 0 - Class A1 heat State 5 - Class B heat</p> <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following: - Category (light pattern details) @ High power setting - (Category C: C-6-16 and Category O: None) @ Medium power setting - (Category C: C-3-14 and Category O: O-5-14) @ Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8) - Synchronization - Flash rate 2 seconds (0.5Hz)</p> <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	
S4-711-VAD-HPR	<p>Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor Detector with Red Visual Alarm (S4-701 base and S4-700-34K)</p> <p>Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat- State 11 - Low sensitivity / Class B heat*- State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <p>2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):</p> <ul style="list-style-type: none">- High power setting - (Category C: C-3-14 and Category O: O-4.5-14)- Medium power setting - (Category C: C-3-13 and Category O: O-4-13)- Low power setting - (Category C: C-3-10 and Category O: None)- Synchronization- Flash rate 2 seconds (0.5Hz)	042bw/01
S4-711-VAD-LPW	<p>3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p> <p>Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor Detector with White Visual Alarm (S4-701 base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat- State 11 - Low sensitivity / Class B heat*- State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <p>2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):</p> <ul style="list-style-type: none">- Low power setting - (Category C: C-3-10 and Category O: None)- Synchronization- Flash rate 2 seconds (0.5Hz)	042bw/02
S4-711-VAD-HPW	<p>3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p> <p>Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor Detector with White Visual Alarm (S4-701 base and S4-700-34K)</p> <p>Notes: 1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat	042bw/03

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COMMERCIAL DETECTORS

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**LPCB Ref.
 No.**

	<ul style="list-style-type: none"> - State 6 - Low sensitivity / Class BS heat* - State 7 - Medium optical / Class A2S heat - State 8 - Delayed medium optical / Class A1 heat - State 11 - Low sensitivity / Class B heat* - State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <p>2. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):</p> <ul style="list-style-type: none"> - High power setting - (Category C: C-6-16 and Category O: None) - Medium power setting - (Category C: C-3-14 and Category O: O-5-14) - Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8) - Synchronization - Flash rate 2 seconds (0.5Hz) 	
S4-901	<p>3. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C Analogue Addressable Dual Optical Smoke and Class P Heat and CO Multi-Sensor Detector (S4-700 Standard Base and S4-700-34K)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none"> - State 0 - Normal sensitivity / Class A1 heat - State 1 - High sensitivity / Class A1 heat - State 2 - Medium sensitivity / Class A1 heat - State 4 - Normal sensitivity (no spike) / Class A1 heat - State 6 - Low sensitivity / Class A1 heat* - State 7 - Normal sensitivity / Class A2S heat - State 9 - Class A1 heat* - State 11 - Normal sensitivity (no spike) / Class B heat - State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p> <p>2. Carbon Monoxide Detection is not included in the scope of this approval.</p>	042bz/01
S4-711-V	<p>Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor Detector with Speech (S4-700 standard base with or without S4-FLUSH Semi-flush mounting kit and S4-700-34K)</p> <p>Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs</p> <p>2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none"> State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spoke) / Class A1 heat State 5 - Medium optical / Class B heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 8 - Delayed medium optical / Class A1 heat State 11 - Low sensitivity / Class B heat* State 12 - Off / Class A1 heat* <p>*Does not meet the requirement of EN 54-7</p>	042ca/01
S4-771-S	<p>Analogue Addressable Dual Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder (S4-700 standard base with or without S4-FLUSH semi-flush mounting kit and S4-700-34K)</p> <p>Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs</p> <p>2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none"> State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spoke) / Class A1 heat State 5 - Medium optical / Class B heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 8 - Delayed medium optical / Class A1 heat State 11 - Low sensitivity / Class B heat* State 12 - Off / Class A1 heat* <p>*Does not meet the requirement of EN 54-7</p>	042ca/02
S4-770-S	<p>Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder (S4-700 standard base with or without S4-FLUSH semi-flush mounting kit and</p>	042ca/03

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COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

S4-700-34K)

Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings:

High - Continuous 933 Hz

Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

State 0 - Medium optical / Class A1 heat

State 2 - Low sensitivity / Class A1 heat*

State 3 - High sensitivity / Class A1 heat

State 4 - Medium optical (no spoke) / Class A1 heat

State 5 - Medium optical / Class B heat

State 6 - Low sensitivity / Class BS heat*

State 7 - Medium optical / Class A2S heat

State 8 - Delayed medium optical / Class A1 heat

State 11 - Low sensitivity / Class B heat*

State 12 - Off / Class A1 heat*

*Does not meet the requirement of EN 54-7

S4BK-711-V

Analogue Addressable Dual Optical Smoke and Class P Heat Multi-sensor with Speech Sounder (Black Body Variant) (S4BK-700 Base with or without S4-FLUSH semi-flush mounting kit)

042ca/04

Notes:

1. Meets the requirements of EN 54-3 at the following sounder tone settings:

- High - Continuous 933 Hz

- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:

State 0 - Medium optical / Class A1 heat

State 2 - Low sensitivity / Class A1 heat*

State 3 - High sensitivity / Class A1 heat

State 4 - Medium optical (no spoke) / Class A1 heat

State 5 - Medium optical / Class B heat

State 6 - Low sensitivity / Class BS heat*

State 7 - Medium optical / Class A2S heat

State 8 - Delayed medium optical / Class A1 heat

State 11 - Low sensitivity / Class B heat*

State 12 - Off / Class A1 heat*

*Does not meet the requirement of EN 54-7

Bases:

S4-700 standard base

S4-701 S Quad plate and base

S4-FLUSH semi-flush fixing kit

S4BK-700 standard base (black)

S4BK-705 Black IP21 base covers (pack 5)

S4-700-34K Fusion Adaptor base

Certificate No: 042bh to EN 54-12: 2015 and EN 54-17: 2005

Beam Detectors

Certificated Products

LPCB Ref.
No.

S4-34740

Analogue addressable optical beam smoke detector with short circuit isolator (S4-34741-01, S4-34741-03 and S4-700 base)

042bh/01

Notes:

1. The S4-34740 beam sensor pair comprises of an S4-34741 beam transmitter, plus an S4-34742 beam receiver.

2. Meets the requirements of EN 54-12 at the following sensitivity settings:

States 0, 1: 3.01dB

States 2, 3: 1.25dB

Ancillaries:

S4-34741-01 beam angle bracket

S4-34741-03 beam parallel bracket

S4-700 Base

GEZE GmbH

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Certificate No: 928d-(cl-10) to EN 54-5: 2000 + A1: 2002

Point Heat Detectors
Certificated Products

		LPCB Ref. No.
GC003 D	Conventional non-latching Class P heat detector (GC 150B relay base and GC160 B base) Note: 1. Meets the requirements of EN 54-5 for Class A1R and Class B	928d/02

Bases

GC150 B Non-latching relay base
GC160 B Universal adaptor base

Certificate No: 928e-(cl-10) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors
Certificated Products

		LPCB Ref. No.
GC002 D	Conventional non-latching photo smoke detector (GC150 B relay base and GC160 B base)	928e/02

Bases

GC150 B Non-latching relay base
GC160 B Universal adaptor base

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Certificate No: 548c to EN 54-5: 2000 + A1: 2002

Certificate No: 548c-(cl-6) to EN 54-5: 2000 + A1: 2002

Point Heat Detectors
Certificated Products

		LPCB Ref. No.
C-9103	Conventional Class A1R heat detector (DZ-03 base)	548c/01
I-9103	Intelligent Class A1R Rate of Rise Heat Detector (DZ-03 base)	548c/02
DC-9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (DB-01 & DB-01D Bases and DP-9907 Unit) Note: 1. Meets the requirements of EN 54-5:2000 for Class A1R, A2S & BS	548c/03
DI-9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (DB-01 Base) Note: 1. Meets the requirements of EN 54-5:2000 for Class A1R, A2S & BS	548c/04

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Bases:

DZ-03	Standard detector base
DB-01	Standard base
DB-01D	Diode base
DP-9907	Active end of line unit

Certificate No: 548d to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 548d-(cl-6) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detector

Certificated Products

		LPCB Ref. No.
C-9102	Conventional Photoelectric Smoke Detector (DZ-03 base)	548d/01
I-9102	Intelligent Photoelectric Smoke Detector (DZ-03 base)	548d/02
DC-9102E	Conventional Photoelectric Smoke Detector (DB-01 & DB-01D Bases and DP-9907 Unit) Note:1. Meets the requirements of EN 54-7:2000 at sensitivity level 1 (default) setting only	548d/03
DI-9102E	Intelligent Photoelectric Smoke Detector (DB-01 Base) Note: 1. Meets the requirements of EN 54-7:2000 at sensitivity level 1 (default) setting only	548d/04

Bases:

DZ-03	Standard detector base
DB-01	Standard Base
DB-01D	Diode Base
DP-9907	Active End of Line Unit

Certificate No: 548k to EN 54-12: 2015

Beam Detectors

Certificated Products

		LPCB Ref. No.
I-9105R	Intelligent optical beam detector Notes: 1) Meets the requirements of EN 54-12 at the following sensitivity settings: Level 1 - 1.61 dB Level 2 - 2.31 dB	548k/01

Certificate No: 548q to EN54-5: 2000 + A1:2002, EN54-7: 2000 + A1: 2006, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
C-9101	Conventional Optical Smoke and Heat Multisensor Detector (P-9907 Base, DZ-03D Base & DZ-03 Base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity setting Mode 1 2. Meets the requirement of EN 54-5: 2000 at Class A2R	548q/01
I-9101	Intelligent Optical Smoke and Heat Multisensor Detector (DZ-03 Base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity setting Mode 1 2. Meets the requirement of EN 54-5: 2000 at Class A2R	548q/02
DC-9101E	Conventional Combination Heat/Photoelectric Smoke Detector (DB-01 & DB-01D bases and DP-9907 Unit) Notes:1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R Conventional Combination Heat/Photoelectric Smoke Detector	548q/03
DC-9101E-B	Conventional Combination Heat / Photoelectric Smoke Detector Black Plastic (DB-01-B & DB-01D Bases and DP-9907 Unit) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R	548q/03
DI-9101E	Intelligent Combination Heat/Photoelectric Smoke Detector (DB-01 base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only	548q/04

Certificated Products

		LPCB Ref. No.
DI-9101E-B	2. Meets the requirements of EN 54-5: 2000 for Class A2R Intelligent Combination Heat / Photoelectric Smoke Detector - Black Plastic (DB-01-B Base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R	548q/04

Bases:

DZ-03	Standard base
P-9907	Active EOL base
DZ-03D	Diode base
DB-01	Standard base
DB-01D	Diode base
DP-9907	Active end of line unit
DB-01-B	Standard Base – Black Plastic

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Certificate No: 810b to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
55000-122HSL	Series 65 Conventional Class A1R Heat Detector (45681-200HSL mounting base) <i>Note: Meets the requirements of EN 54: Part 5 - Class A1R</i>	810b/01
55000-127HSL	Series 65 Conventional Class BR Heat Detector (45681-200HSL mounting base) <i>Note: Meets the requirements of EN 54: Part 5 Class BR</i>	810b/02
55000-132HSL	Series 65 Conventional Class CR Heat Detector (45681-200HSL mounting base) <i>Note: Meets the requirements of EN 54: Part 5 Class CR</i>	810b/03
55000-137HSL	Series 65 Conventional Class CS Heat Detector (45681-200HSL mounting base) <i>Note: Meets the requirements of EN 54: Part 5 Class CS</i>	810b/04
55000-400HSL	XP95 Analogue Addressable Class A2S Heat Detector (45681-210HSL mounting base)	810b/05
55000-401HSL	XP95 Analogue Addressable Class CS High Temperature Heat Detector (45681-210HSL mounting base)	810b/06

Bases:

45681-200HSL Series S65 Mounting Base
 45681-210HSL Series XP95 mounting base

Certificate No: 810c to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
55000-217HSL	Series 65 Conventional Ionisation Smoke Detector (45681-200HSL mounting base)	810c/01
55000-317HSL	Series 65 Conventional Optical Smoke Detector (45681-200HSL mounting base)	810c/02
55000-500HSL	XP95 Analogue Addressable Ionisation Smoke Detector (45681-210HSL mounting base)	810c/03
55000-600HSL	XP95 Analogue Addressable Optical Smoke Detector (45681-210HSL mounting base)	810c/04

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Bases:

45681-200HSL Series 60/65 Mounting Base
45681-210HSL Series XP95 Mounting Base

Certificate No: 810d to EN 54-7: 2001 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

55000-885HSL XP95 Analogue Addressable Multisensor Detector
(45681-210HSL mounting base)

LPCB Ref.
No.
810d/01

Bases:

45681-210HSL Series XP95 Mounting Base

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Certificate No: 358d to EN 54-10: 2002 + A1: 2005

Flame Detectors

Certificated Products

IR3 Conventional IR³ Flame Detector (IR-AMB)
Note: Meets EN 54-10: 2002 at Class 1 only

IR3-IS Conventional IR³ Intrinsically Safe Flame Detector
Note: Meets EN 54-10: 2002 at Class 1 only

IR3-EX Conventional IR³ (Exd) Flameproof Flame Detector (IR-AMB)
Note: Meets EN 54-10: 2002 at Class 1 only

IR2-UV Conventional UV/IR² Flame Detector (IR-AMB)
Note: Meets EN 54-10: 2002 at Class 1 only

IR2-UV-EX Conventional UV/IR² (Exd) Flameproof Flame Detector (IR-AMB)
Note: Meets EN 54-10: 2002 at Class 1 only

LPCB Ref.
No.
358d/01

358d/02

358d/03

358d/04

358d/05

Ancillaries

IR-AMB Adjustable Mounting Bracket

Certificate No: 358c to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

ALK-E (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)YBO-R/SCI, YBO-BS & YBO-BSB bases)
Note:1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.

ALN-EN Intelligent Analogue Addressable Optical Smoke DetectorYBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases)
Note:1. Meets the requirements of EN 54-7 in low and high sensitivity settings.

ALN-EN (WHT) Intelligent Analogue Addressable Optical Smoke Detector (White)YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases)
Note:1. Meets the requirements of EN 54-7 in low and high sensitivity settings.

ALN-E(WHT) Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS, YBO-BSB, YBN/R/2NA)
Note:
1. Meets the requirement of EN 54-7 in low and high sensitivity settings.

LPCB Ref.
No.

358c/03

358c/07

358c/07

358c/08

Bases

YBN-R/3	Standard Base
YBO-R/SCI	Positive switching short circuit isolator base
YBO-R/SCI(RED)	Short circuit isolating base
YBO-BS	Sounder base
YBO-BS(WHT)	Sounder base
YBO-BSB	Sounder base with Beacon
YBN-R/6	Standard Base
YBN-R/6SK	Standard base with schottky diode
YBO-R/6R	Relay Base
YBO-R/6RS	Relay Base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R-6PA	Protector alarms base
YBN-R/3(SCI)	Short circuit isolator base

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Certificate No: 117k to EN 54-10: 2002 + A1: 2005

Certificated Products

DRD-E	Conventional Class 1 IR Flame Detector (YBN-R/6SK, YBN-R/6, YBO-R/6R, YBO-R/6RN, YBO-R/6PA, YBO-R/6RS)
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LPCB Ref. No.
117k/01

Bases

YBN-R/6SK	Conventional Schottky diode base
YBN-R/6	Conventional standard base
YBO-R/6R	Conventional latching relay base
YBO-R/6RN	Conventional non-latching relay base
YBO-R/6PA	Conventional 2 wire base
YBO-R/6RS	Conventional latching relay base with integral Schottky diode

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Certificate No: 928k-(cl-7) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Certificated Products

ROD-E	Wireless optical smoke detector (RSM-WDB base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery	928k/01
ROP-E	Wireless Addressable Optical Smoke Detector (RSM-WDB Base) Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases:

RSM-WDB - Wireless Adaptor Base

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COMMERCIAL DETECTORS

Certificate No: 928j-(cl-7) to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008

Certificate No: 117m-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-17:2005

Certificate No: 117g-(cl-3) to EN 54-5:2000 + A1:2002

Certificated Products	LPCB Ref. No.
DCD-1E-IS	Class A1 Conventional Intrinsically Safe Fixed Temperature and Rate of Rise Heat Detector (YBN-R/4IS Base) 117g/01
DFJ-AE3	Class A1S Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/02
DFJ-AE3(HFP)	Class A1S Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/02
DFJ-CE3	Class CS Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/03
DFJ-CE3(HFP)	Class CS Conventional Fixed Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/03
DCD-AE3	Class A1R Conventional Rate of Rise Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK, YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/04
DCD-AE3(HFP)	Class A1R Conventional Rate of Rise Temperature Heat Detector (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/04
DCD-AE3(WHT)	Class A1R Conventional Rate of Rise Temperature Heat Detector - White (YCA-RL/3H2M, YBN-R6SK and YBN-R/6, YBO-R/6R, YBO-R/6RS, YBO-R/6RN and YBO-R/6PA Bases) 117g/04
DFG-60BLKJ	Class A2 Conventional Fixed Temperature Water Resistant Heat Detector 117g/05
DCD-CE3	Conventional Class CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base) 117g/06
DCD-CE3(HFP)	Conventional Class CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base) 117g/06
DCD-CE3(WHT)	Conventional Class CR Rate of Rise High Temperature Heat Detector - White (YBN-R/6M Base) 117g/06
DCD-CE3M	Conventional Class CR Rate of Rise High Temperature Heat Detector (YBN-R/6M Base) 117g/06
ACB-EW	Weather Proof Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3 base) 117g/10 Note: Classes A1R, A1S, BR, BS, CR and CS when used with ACB-E protocol and classes A1S, BS and CS when used with ATG-E protocol.
DFG-60BLJ	Conventional Class A2 Fixed Temperature Water Resistant Heat Detector 117g/12
ATJ-E(HFP)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBN-R/3(SCI), YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL Bases) 117g/13 Note: Classes A1R, BR, CR, A1S, BS and CS.
ATJ-E(HFP)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator, White (YBV-R/4, YBV-R/4(HFP), YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) 117m/01 Note:
ATJ-E(WHT)-SCI	Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator, White (YBV-R/4, YBV-R/4(WHT), YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) 117m/01 Note:
ATJ-EN(SCI)	Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (YBV-R/4, YBV-R/4(WHT), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) 117m/02 Note:
ATJ-EN(WHT)-SCI	Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator, White (YBV-R/4, YBV-R/4(WHT), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) 117m/02 Note:
RHD-E	Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS Wireless heat detector (RSM-WDB base) 928j/01

Notes:

1. Meets the requirements of EN 54-5 for Class A1R
2. The device must be used with the following batteries only:
CR123A (3 Vdc) - main battery

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

RHT-E *CR2032A (3 Vdc) - secondary battery*
Wireless Addressable Class P Heat Detector (RSM-WDB Base)
Notes:
1. *Meets the requirements of EN 54-5 for Class A1R and BS*
2. *The device must be used with the following battery type only:*
CR123A (3 Vdc) - Primary and Secondary Battery

928j/02

Base:

RSM-WDB	Wireless Adaptor Base
YBV-R/4	Addressable detector base
YBV-R/4(WHT)	Addressable detector base (White)
YBV-R/4(HFP)	Addressable detector base (White)
YBN-R/3	Addressable detector base
YBO-BS	Base sounder
YBO-BS(WHT)	Base sounder (White)
YBN-R/3(SCI)	Short circuit isolator base
YBN-R/3(WHT)-SCI	Short circuit isolator base (White)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBN-R/3(WHT)	Addressable Standard Mounting Base (White Plastic)
YBN-R/R4IS(WHT)	Conventional Intrinsically Safe Mounting Base (White Plastic)
YBN-R/6(WHT)	Conventional Standard Mounting Base (White Plastic)
YBN-R/6M(WHT)	Conventional Standard Marine Mounting Base (White Plastic)
YBN-R/6SK(WHT)	Conventional Schottky Diode Mounting Base (White Plastic)
YBO-BS(WHT)	Addressable Base Sounder (White Plastic)
YBO-R/6PA(WHT)	Conventional 2 Wire S Mounting Base
YBO-R/6R(WHT)	Conventional Relay Mounting Base Latching (White Plastic)
YBO-R/6RS(WHT)	Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)
YBO-R/6RN(WHT)	Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)
YBN-R/3(WHT)-SCI	Addressable Short Circuit Isolating Mounting Base (White Plastic)
YBO-BSB2(BLK)/RL	Addressable Base Sounder Beacon (Red LED) - Black Plastic
YBO-BSB2(BLK)/WL	Addressable Base Sounder Beacon (White LED) - Black Plastic

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

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Certificate No: 117h-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Certificate No: 164g to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 358c-(cl-3) to EN 54-7:2000 + A1:2002 + A2:2006

Certificate No: 164g to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 358e-(cl-1) to EN 54-17:2000 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ALN-E(HFP)	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Meets the requirements of EN54-7 in low and high sensitivity settings	117h/03
ALN-E(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Meets the requirements of EN54-7 in low and high sensitivity settings	117h/03
ALN-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Meets the requirements of EN54-7 in low and high sensitivity settings	117h/04
ALN-EN(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Meets the requirements of EN54-7 in low and high sensitivity settings	117h/04
ALN-E(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White Colour Plastic Moulding) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBN-R/2NA, YBO-BS & YBO-BSB bases) Note: Meets the requirements of EN 54-7 in low and high sensitivity settings	164g/06
ALN-EN(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White Colour Plastic Moulding) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBN-R/2NA, YBO-BS & YBO-BSB bases) Note: Meets the requirements of EN 54-7 in low and high sensitivity settings	164g/07
ALN-E(HFP)	Intelligent Analogue Addressable Optical Smoke Detector (Branded as HFP) (White Colour Plastic Moulding) (YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases) Note: Meets the requirements of EN 54-7 in low and high sensitivity settings	164g/08
SOC-E-IS	Conventional Optical Smoke Detector - Ivory Plastic (YBN-R/4IS)	164g/10
SOC-E-IS(WHT)	Conventional Optical Smoke Detector - White Plastic (YBN-R/4(WHT)-IS)	164g/10
ALK-E(HFP)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3, YBO/BS, YBO-BSB2/WL, YBO-BSB(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)	358c/03

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
	Note: Meets the requirements of EN54-7 in low and high sensitivity settings and in normal and lower power modes.
SLV-E3 (HFP)	358c/05
ALN-EN	358c/07
	Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.
ALN-E(HFP)	358c/08
	Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.
SOC-E3N	358c/09
SOC-E3N(WHT)	358c/09
SOC-E3(HFP)	358c/10
SOC-E3(WHT)	358c/10
ALN-E(HFP)-SCI	358e/01
	Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity
ALN-E(WHT)-SCI	358e/01
	Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity
ALN-EN(SCI)	358e/02
	Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity
ALN-EN(WHT)-SCI	358e/02
	Note: 1. Meets the requirements of EN 54-7 at 2% and 4.5% sensitivity
Bases	
YBN-R/4C	Conventional mounting base
YBO-BS	Sounder base
YBO-R/6R	Relay base
YBO-R/6RS	Relay base latching with Schottky diode
YBO-R/6RN	Relay base non latching
YBO-R/6PA	Protector alarms base
YBN-R/3	Standard base
YBN-R/6	Standard base
YBN-R/6SK	Standard base with Schottky diode
YBO-BS	Sounder base
YBN-R/3(SCI)	Short circuit isolator base
YBO-BSB2/WL	Base sounder beacon (White LED)
YBO-BSB2(WHT)/WL	Base sounder beacon (White LED)
YBO-BSB2/RL	Base sounder beacon (Red LED)
YBO-BSB2(WHT)/RL	Base sounder beacon (Red LED)
RSM-WDB	Wireless adaptor base
YBV-R/4	Addressable detector base
YBN-R/4(WHT)-IS	Remote indicator base white
YBN-R/4IS	Remote indicator base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

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Certificate No: 117p-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-26:2015, EN 54-29:2015, EN 54-30:2015, EN 54-31:2015, CEA 4021:2003

Certificate No: 164y to EN 54-5:2000 + A1:2002

Certificate No: 117f-(cl-2) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Certificate No: 164ab to EN 54-5:2000 + A1:2002, EN 54-17:2005

Certificated Products

ACD-E

Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)

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No.

117p/01

Notes:

1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR
2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%

Modes:

9A*	Smoke/Heat/Co Combine (Default Mode)
9B	Co/Heat combine, Heat (RoR)
80*	Smoke/Heat combine
81	Smoke/Heat combine
82*	Smoke
83	Smoke
87	Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)
88	Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)
89	Heat (FT) (Fixed Level 3 - Class A1S)
8A	Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)
8B	Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)
8C	Heat (FT) (Fixed Level 6 - Class CS)
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb
8E*	Smoke/Heat Combine, COHb
8F*	Smoke, COHb
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb

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COMMERCIAL DETECTORS

Certificated Products

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ACD-E(HFP)	<p>99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb</p> <p>9C COHb</p> <p>9D CO</p> <p>FT = Fixed Temperature</p> <p>RoR = Rate of Rise</p> <p>COHb = Carboxyhemoglobin</p> <p>* Reduced false alarm function</p> <p>Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% <p>Modes:</p> <p>9A* Smoke/Heat/Co Combine (Default Mode)</p> <p>9B Co/Heat combine, Heat (RoR)</p> <p>80* Smoke/Heat combine</p> <p>81 Smoke/Heat combine</p> <p>82* Smoke</p> <p>83 Smoke</p> <p>87 Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)</p> <p>88 Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)</p> <p>89 Heat (FT) (Fixed Level 3 - Class A1S)</p> <p>8A Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)</p> <p>8B Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)</p> <p>8C Heat (FT) (Fixed Level 6 - Class CS)</p> <p>8D Smoke, Co, Heat (FT), Heat (RoR), COHb</p> <p>8E* Smoke/Heat Combine, COHb</p> <p>8F* Smoke, COHb</p> <p>93 Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb</p> <p>94 Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb</p> <p>95 Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb</p> <p>96 Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb</p> <p>97 Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb</p> <p>98 Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb</p> <p>99* Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb</p> <p>9C COHb</p> <p>9D CO</p> <p>FT = Fixed Temperature</p> <p>RoR = Rate of Rise</p> <p>COHb = Carboxyhemoglobin</p> <p>* Reduced false alarm function</p>	117p/01
ACD-E(WHT)	<p>Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR 2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5% <p>Modes:</p> <p>9A* Smoke/Heat/Co Combine (Default Mode)</p> <p>9B Co/Heat combine, Heat (RoR)</p> <p>80* Smoke/Heat combine</p> <p>81 Smoke/Heat combine</p> <p>82* Smoke</p> <p>83 Smoke</p> <p>87 Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)</p> <p>88 Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)</p> <p>89 Heat (FT) (Fixed Level 3 - Class A1S)</p> <p>8A Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)</p> <p>8B Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)</p>	117p/01

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COMMERCIAL DETECTORS

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8C	Heat (FT) (Fixed Level 6 - Class CS)
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb
8E*	Smoke/Heat Combine, COHb
8F*	Smoke, COHb
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb
99*	Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb
9C	COHb
9D	CO

FT = Fixed Temperature
RoR = Rate of Rise
COHb = Carboxyhemoglobin
* Reduced false alarm function

ACD-EN

Intelligent Analogue Addressable Multi-Criteria Detector (Ivory colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)

117p/02

Notes:

1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR
2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%

Modes:

9A*	Smoke/Heat/Co Combine (Default Mode)
9B	Co/Heat combine, Heat (RoR)
80*	Smoke/Heat combine
81	Smoke/Heat combine
82*	Smoke
83	Smoke
87	Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)
88	Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)
89	Heat (FT) (Fixed Level 3 - Class A1S)
8A	Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)
8B	Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)
8C	Heat (FT) (Fixed Level 6 - Class CS)
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb
8E*	Smoke/Heat Combine, COHb
8F*	Smoke, COHb
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb
99*	Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb
9C	COHb
9D	CO

FT = Fixed Temperature
RoR = Rate of Rise
COHb = Carboxyhemoglobin
* Reduced false alarm function

ACD-EN(WHT)

Intelligent Analogue Addressable Multi-Criteria Detector (White colour) (YBN-R/3, YBN-R/3(WHT), YBN-R/3(SCI), YBN-R/3(WHT)-SCI, YBO-BS, YBO-BS(WHT), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL, YBO-BSB2(WHT)/RL bases)

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Notes:

1. Meets the requirements of EN 54-5, depending on the specific heat mode selected, at Classes A1, A1S, A1R, C, CS, CR
2. Meets the requirements of EN 54-7, depending on the specific smoke mode selected, at Sensitivity Settings 2% and 4.5%

Modes:

9A*	Smoke/Heat/Co Combine (Default Mode)
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COMMERCIAL DETECTORS

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LPCB Ref.
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9B	Co/Heat combine, Heat (RoR)
80*	Smoke/Heat combine
81	Smoke/Heat combine
82*	Smoke
83	Smoke
87	Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)
88	Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)
89	Heat (FT) (Fixed Level 3 - Class A1S)
8A	Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)
8B	Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)
8C	Heat (FT) (Fixed Level 6 - Class CS)
8D	Smoke, Co, Heat (FT), Heat (RoR), COHb
8E*	Smoke/Heat Combine, COHb
8F*	Smoke, COHb
93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb
99*	Smoke/Heat/CO Combine, Smoke, CO/Heat Combine, Heat (FT), Heat (RoR), COHb
9C	COHb
9D	CO

FT = Fixed Temperature
 RoR = Rate of Rise
 COHb = Carboxyhemoglobin
 * Reduced false alarm function

ATJ-E(HFP)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS	164ab/01
ATJ-E(WHT)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS	164ab/01
ATJ-EN(SCI)	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS	164ab/02
ATJ-EN(WHT)-SCI	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator Note: Meets the requirements of EN 54-5:2000 for classes A1R, BR, CR, A1S, BS & CS	164ab/02
ATJ-E(HFP)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBN-R/3(SCI), YBO-BS, YBO-BSB2(WHT)/WL-HFP and YBO-BSB2(WHT)/RL-HFP bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/01
ATJ-E(WHT)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBN-R/3(SCI), YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/01
ATJ-EN	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/02
ATJ-EN(WHT)	Intelligent Analogue Addressable Class P Heat Detector (YBN-R/3, YBO-BS, YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Classes A1R, BR, CR, A1S, BS and CS.	164y/02

Bases:

YBN-R/4IS	Conventional Intrinsically Safe Mounting base
YCA-RL/3H2M	Addressable base
YBN-R/6SK	Schottky diode base
YBN-R/6	Standard base
YBN-R/3	Standard Analogue Mounting Base
YBN-R/3(WHT)	Standard Analogue Mounting Base
YBN-R/3(SCI)	Short circuit isolator base
YBN-R/3(WHT)-SCI	Short circuit isolator base
YBO-RSCI/NS	Negative Switching Short circuit isolating base
YBF-RL/4H3H	2 wire common mounting base
YBF-RL/4H5H	2 wire common mounting base
YBN-R/6M	Standard Base

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COMMERCIAL DETECTORS

YBO-BS	Base sounder
YBO-BS(WHT)	Base sounder
YBO-R/6PA	Protector alarms base
YBO-R/6R	Relay base
YBO-R/6RS	Relay latching base with Schottky diode
YBO-R/6RN	Relay base non-latching
YBN-R/3(SCI)	Short circuit Isolating base
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/WL-HFP	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/RL-HFP	Base Sounder Beacon (Red LED)
RSM-WDB	Wireless Adaptor Base
YBN-R/3(WHT)	Addressable Standard Mounting Base (White Plastic)
YBN-R/R4IS(WHT)	Conventional Intrinsically Safe Mounting Base (White Plastic)
YBN-R/6(WHT)	Conventional Standard Mounting Base (White Plastic)
YBN-R/6M(WHT)	Conventional Standard Marine Mounting Base (White Plastic)
YBN-R/6SK(WHT)	Conventional Schottky Diode Mounting Base (White Plastic)
YBO-BS(WHT)	Addressable Base Sounder (White Plastic)
YBO-R/6PA(WHT)	Conventional 2 Wire S Mounting Base
YBO-R/6R(WHT)	Conventional Relay Mounting Base Latching (White Plastic)
YBO-R/6RS(WHT)	Conventional Relay Mounting Base Latching with Schottky Diode (White Plastic)
YBO-R/6RN(WHT)	Conventional Relay Mounting Base Non-Latching with Schottky Diode (White Plastic)
YBN-R/3(WHT)-SCI	Addressable Short Circuit Isolating Mounting Base (White Plastic)
YBO-BSB2(BLK)/RL	Addressable Base Sounder Beacon (Red LED) - Black Plastic
YBO-BSB2(BLK)/WL	Addressable Base Sounder Beacon (White LED) - Black Plastic
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBV-R/4	Addressable Detector Base
YBV-R/4(WHT)	Addressable Detector Base (White)
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon
YBO-BSB2(BLK)/WL	Base Sounder Beacon

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Certificate No: 928m-(cl-7) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Certificate No: 164w to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Certificate No: 117n-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, CEA4021:2003

Certificate No: 164z to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ACC-E(HFP)-SCI	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator, Pure White (YBV-R/4, YBV-R/4(HFP), YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at Class A1 & C	117n/01
ACC-E(WHT)-SCI	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator, Pure White (YBV-R/4, YBV-R/4(WHT), YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity	117n/01

PART 1: SECTION 4.1**COMMERCIAL DETECTORS**

Certificated Products	LPCB Ref. No.
ACC-EN(SCI) Mode 2 - Fixed temperature heat detector at Class A1 & C Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator, Ivory (YBV-R/4, YBV-R/4(WHT), YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at Class A1 & C	117n/02
ACC-EN(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator, Pure White (YBV-R/4, YBV-R/4(WHT), YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Notes: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at Class A1 & C	117n/02
ACC-EN(SCI) Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-EN(WHT)-SCI Intelligent Analogue Addressable Multi-criteria Detector with Short Circuit Isolator Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only)	164aa/01
ACC-E(HFP) Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2(WHT)/WL-HFP and YBO-BSB2(WHT)/RL-HFP bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/01
ACC-E(WHT) Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/01
ACC-EN Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI) YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/02
ACC-EN(WHT) Intelligent Analogue Addressable Multi-criteria Detector (YBN-R/3, YBO-BS, YBN-R/3(SCI), YBO-BSB2/WL, YBO-BSB2(WHT)/WL, YBO-BSB2/RL and YBO-BSB2(WHT)/RL bases) Note: Certificated at the following modes: Mode 0 - Thermally enhanced smoke detector at 2% and 4.5% sensitivity Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity Mode 2 - Fixed temperature heat detector at class A1 & C	164w/02
ACC-E(HFP)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Enclosure) Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi) Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at class A1 & C (Heat only)	164z/01
ACC-E(WHT)-SCI Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (White Enclosure) Notes: Certificated at the following modes: Mode 0 -enhanced smoke detector at 2% and 4.5% sensitivity (Multi)	164z/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
RMD-E Mode 1 - Optical smoke detector at 2% and 4.5% sensitivity (Smoke only) Mode 2 - Fixed temperature heat detector at Class A1 & C (Heat only) Wireless multi-criteria detector (RSM-WDB base)	928m/01
Notes:	
1. Meets the requirements of EN 54-5 for Class A1R	
2. Meets the requirements of EN 54-7 in the normal sensitivity setting	
3. The device must be used with the following batteries only: CR123A (3 Vdc) - main battery CR2032A (3 Vdc) - secondary battery	
RMC-E Wireless Addressable Multicriteria Detector (RSM-WDB Base)	928m/02
Notes:	
1. Meets the requirements of EN 54-5 for Class A1R	
2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low	
3. The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	
Bases:	
YBN-R/3	Standard base
YBN-R/2NA	Base
YBN-R/4IS	Intrinsically safe mounting
base	
YCA-RL/3H2	Addressable base
YCA-RL/5H2	Master addressable base
AMU-B2	Addressable base
AMU-MB	Master addressable base
YBC-RL/4H5	Base
YBF-RL/3J	Slave base
YBF-RL/4H5	Base
YBK-RL/4H1A	Base
YBK-RL/4H2	Base
YCA-RL/3H2M	Addressable base
YBN-R/6SK	Schottky diode base
YBN-R/6	Standard base
YBN-R/4	Base
YBN-R/6M	Standard base
YBO-BS	Base Sounder
YBO-BS(WHT)	Base sounder (White)
YBO-R/5	Base
YBN-R/4M	Base
YBO-R/5M	Base
YBO-R/6R	Relay base
YBO-R/6RS	Relay base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R/6PA	Protector alarms base
YBO-RSCI/NS	Negative Switching Short circuit isolating base
YBF-RL/4H3H	2 wire mounting base
YBF-RL/4H5H	2 wire mounting base
RSM-WDB	Wireless Adaptor Base
YBN-R/3(SCI)	Short circuit isolator base
YBN-R/3(WHT)-SCI	Short circuit isolator base (White)
YBO-BSB2/WL	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/WL	Base Sounder Beacon (White LED)
YBO-BSB2/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/RL	Base Sounder Beacon (Red LED)
YBO-BSB2(WHT)/WL-HFP	Base Sounder Beacon (White LED)
YBO-BSB2(WHT)/RL-HFP	Base Sounder Beacon (Red LED)
YBV-R/4	Addressable detector base
YBV-R/4(WHT)	Addressable detector base (White)
YBV-R/4(HFP)	Addressable detector base (White)
YBN-R/3	Addressable detector base
YBN-R/3(WHT)-SCI	Short circuit isolator base (White)
YBN-R/3(WHT)	Standard Base
YBO-R/SCI(RED)	Short Circuit Isolator Base
YBO-BS(BLK)	Base Sounder
YBO-BSB2(BLK)/RL	Base Sounder Beacon
YBO-BSB2(BLK)/WL	Base Sounder Beacon

^{LP} denotes detector/base combination is approved in low power mode also.

All Enquiries to:

Hochiki Europe UK Limited, Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom

Tel: +44 (0)1634 260131 • Fax: +44 (0)1634 260132

Manufacturing at (Certificate Nos. 117, 117f, 117g, 117h, 117j)

Hochiki Corporation, 141-1 Maehara Ejiri, Kakuda-shi, Miyagi 971-15, Japan

Tel: +81 3 3444 4111 • Fax: +81 3 3444 4167

Certificate No: 117j to EN 54-12:2015

Certificated Products		LPCB Ref. No.
SPC-E	Conventional 4 wire optical beam smoke detector <i>Notes:</i> 1) <i>Approved at sensitivity setting 25% and 50%</i>	117j/02
SPC-ET	Conventional 2 wire optical beam smoke detector <i>Notes:</i> 1) <i>Approved at sensitivity setting 25% and 50%</i> 2) <i>Approved for use with SPC-ET2WI interface kit</i>	117j/03
SPC-ET(HFP)	Conventional 2 wire optical beam smoke detector. <i>Notes:</i> 1) <i>Approved at sensitivity setting 25% and 50%</i> 2) <i>Approved for use with SPC-ET2WI interface kit</i>	117j/03

All Enquiries to:

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Manufacturing at (Certificate Nos 164, 164g, 164m)

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Tel: +44 (0) 1634 260131 • Fax: +44 (0) 1634 260132

E-mail: sales@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164m to EN54-10:2002

Certificated Products		LPCB Ref. No.
IFD-E	Conventional IR ³ Flame detector (IFD-MB) <i>Note: Meets EN 54-10: 2002 at Class 1 only</i>	164m/01
IFD-E(IS)	Conventional IR ³ Intrinsically Safe Flame Detector (IFD-MB) <i>Note: Meets EN 54-10: 2002 at Class 1 only</i>	164m/02
IFD-E(EXD)	Conventional IR ³ (Exd) Flameproof Flame Detector (IFD-MB) <i>Note: Meets EN 54-10: 2002 at Class 1 only</i>	164m/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Honeywell Analytics Inc.

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Tel: +1 847 955 4040

E-mail: bonnie.saxinger@honeywell.com

Certificate No: 1175a to EN54-10:2002 + A1: 2005

Certificated Products

		LPCB Ref. No.
FS20X	Conventional Class 1 Multi-Spectrum, Multi-Spectral and Multi-Band Infrared and Ultraviolet Fire and Flame Detector (SM4 mount) <i>Note:</i> 1. Meets EN 54-10: 2002 at Class 1 for very high, high & medium sensitivities Low sensitivity is not LPCB approved	1175a/01
FS24X-9	Conventional Class 1 Multi-Spectrum and Multi-Spectral Infrared Fire and Flame Detector (SM4 mount) <i>Note:</i> 1. Meets EN 54-10: 2002 at Class 1 for very high & high sensitivities	1175a/02

SM4 Swivel Mount

Honeywell Automation (I) Pvt. Ltd

53, 54, 55 Hadapsar Indl. Estate, Hadapsar, Pune-411013, India

Tel: +91 020 66780200 • Fax: +91 020 66780172

E-mail: rahul.dwivedi@honeywell.com • Website: www.honeywell.com

Certificate No: 550b to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Certificate No: 550e to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
TC840MES-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550b/05
TC840MEIS-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550e/02

Bases:

1450614-007 Standard analogue detector base

B501 standard analogue detector base

B501AP intelligent detector base

B524IEFT-1 analogue short circuit isolator base

B524HTR heater base

B524RTE latching relay base

Certificate No: 550c to EN54-5: 2000 + A1: 2002

Certificate No: 550f to EN54-5: 2000 + A1: 2002 and EN 54-17: 2005

Point Heat Detectors
Certificated Products

		LPCB Ref. No.
TC808ES1028-yy	Analogue addressable class A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
TC808ES1002-yy	Analogue addressable class A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
TC808EIS1028-yy	Analogue addressable class A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
TC808EIS1002-yy	Analogue addressable class A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:

14506414-007 Standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550a to EN54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 550d to EN54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
TC806ES1012-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7: 2000 at high and low sensitivity	550a/04
TC806EIS1012-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7: 2000 at high and low sensitivity	550d/01

Bases:

14506414-007 standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Honeywell Control Systems Limited

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom

Tel: +44 (0)1344 655609 • Fax: +44 (0)1344 655474

Website: www.honeywell.com

Certificate No: 199aa-(cl-1) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002, CEA 4021: 2003 & EN 54-17: 2005

Certificate No: 199aa to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002, CEA 4021: 2003 & EN 54-17: 2005

Certificate No: 199t-(cl-1) to LPS 1279 - 1.0: 2006, EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
TC840MFEIS	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/01
TC840MEIS	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/02
TC850E1009-yy	Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501DG and B524IEFT-1 bases) <i>Notes:</i> 1.) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2.) Certified at the following settings: - <i>Normal Mode:</i> Alarm Levels 1 to 5 (Multi-criteria): EN54-5 Class A1R, EN54-7, LPS1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Class A1R <i>Nuisance Environment Applications:</i> Application 0, Alarm Level 4 LPS1279 & CEA 4021 Application 1, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 2, Alarm Level 4 or 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 3, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 4, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 5, Alarm Level 5 EN54-7 & CEA 4021 Application 6, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 7, Alarm Level 5 EN54-5 Class A1R, LPS1279 & CEA 4021	199t/01

Bases:

B501	standard analogue detector base
B501AP	intelligent detector base
B524IEFT-1	analogue short circuit isolator base
B524HTR	heater base
B524RTE	latching relay base

Beam Detectors

Certificate No: 199n-(cl-1) to EN 54-5: 2000 + A1: 2002

Certificate No: 199ac-(cl-1) to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Certificate No: 199ac to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
TC808EIS1002	Analogue addressable class A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/01
TC808EIS1051	Analogue addressable class BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/02
TC808EIS1028	Analogue addressable class A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/03

Bases:

SIGI-IBS Isolator base
 SIGA-SB Standard base
 SIGA-SB4 Standard base with trim skirt
 SIGA-RB Relay base
 B501 analogue detector base
 B501AP intelligent sensor base
 B501DG analogue deep base
 B524IEFT analogue short circuit isolator base
 B524IEFT-1 analogue short circuit isolator base
 B524HTR heater base
 B524RTE latching relay base

Certificate No: 199m to EN 54-7: 2000 + A1: 2002
Certificate No: 199m-(cl-1) to EN 54-7: 2000 + A1: 2002
Certificate No: 199ab-(cl-1) to EN 54-7: 2000 + A1: 2002 & EN 54-17: 2005
Certificate No: 199ab to EN 54-7: 2000 + A1: 2002 & EN 54-17: 2005

Point Smoke Detectors/Sensors

Certificated Products		LPCB Ref. No.
TC806EIS1012	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity</i>	199ab/01
TC846E1005	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) <i>Note:</i> 1. Meets the requirements of EN 54-7:2000 at high sensitivity	199ab/02
TC842B1007 AE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP bases) <i>Note: Meets EN54-7: 2000 at High, Normal & Low sensitivity settings</i>	199m/07
TC806ES1012	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) <i>Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity</i>	199m/10

Bases:

B501 Analogue detector base
 B501DG Analogue deep base
 B501AP Intelligent detector base
 B524IEFT Analogue short circuit isolator base
 B524IEFT-1 Analogue short circuit isolator base
 B524HTR Heater Base
 B524RTE Latching relay base
 SIGI-IBS Isolator base
 SIGA-SB Standard Base
 SIGA-SB4 Standard base with trim skirt
 SIGA-RB Relay base
 SIGA-RB4 Relay base with trim skirt

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Certificate No: 550a to EN 54-7: 2000 + A1: 2002 + A2: 2006
Certificate No: 550d to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Smoke Detectors

Certificated Products		LPCB Ref. No.
2351E	Conventional photoelectric smoke detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) <i>Note: Meets the requirements of EN54-7:2000 at low, medium & high sensitivity settings.</i>	550a/01
EC01003	Conventional photoelectric smoke detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	550a/02
FL/1003	Conventional photoelectric smoke detector (FL/1000B base)	550a/02

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COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
22051E-xx-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) meets the requirements of EN 54-7: 2000 at high and low sensitivity	550a/04
2FA51	Conventional photoelectric smoke detector (BFA1 base)	550a/05
2351/EIA	Conventional Photoelectric Smoke Detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD Bases) <i>Note:</i> 1. Meets the requirements of EN54-7:2000 at low & high sensitivity settings.	550a/06
2351/EC	Conventional Photoelectric Smoke Detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD Bases) <i>Note:</i> 1. Meets the requirements of EN54-7:2000 at high sensitivity setting only.	550a/07
22051EI-xx-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Meets the requirements of EN 54-7: 2000 at high and low sensitivity	550d/01

Bases:

B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base

Certificate No: 550b to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 550e to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 & CEA 4021: 2003

Multi Criteria Detectors

Certificated Products		LPCB Ref. No.
2351TEM	Conventional optical/thermal detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) <i>Note: Meets the requirements of EN54-5:2000 at Class A1R and EN54-7:2000 at low, medium & high sensitivity settings.</i>	550b/01
ECO1002	Conventional photo-thermal detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases) <i>Note: Meets the requirements of EN 54-5:2000 at class A1R at pre-set sensitivity.</i>	550b/02
FL/1002	Conventional optical/thermal detector base) <i>Notes: Meets the requirements of EN54-5 at class A1R at pre-set sensitivity</i>	550b/02
22051TLE-xx-yy	Analogue addressable photo-thermal-IR multi-criteria detector	550b/04

Certificated Products

LPCB Ref. No.

	(B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	
22051TE-xx-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550b/05
2FA51T	Conventional photo-thermal class A1R detector (BFA1 base) <i>Note: Meets the requirements of EN54-5: 2000 class A1R at pre-set sensitivity</i>	550b/06
22051TLEI-xx-yy	Analogue addressable photo-thermal-IR multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550e/01
22051TEI-xx-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 3) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550e/02

Bases:

B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
B501 standard analogue detector base
B501DG deep analogue detector base
B524IEFT-1 analogue short circuit isolator base
FL/B401 standard base
FL/1000B standard base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base
BFA1 standard base

Certificate No: 550c to EN 54-5: 2000 + A1: 2002

Certificate No: 550f to EN54-5: 2000 + A1: 2002 and EN 54-17: 2005

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Heat Detectors

Certificated Products

		LPCB Ref. No.
5351E	Class A1R conventional rate of rise heat detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) <i>Note: Meets the requirements of EN54-5:2000 at class A1R.</i>	550c/01
4351E	Class BS conventional heat detector (B401, B401DG, B401R, B401SD, B401RSD, B401R1000, B401DGR, B401DGR1000 & B401DGSD bases) <i>Note: Meets the requirements of EN54-5:2000 at class BS.</i>	550c/02
ECO1005	Conventional A1R rate-of-rise heat detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases)	550c/03
FL/1005	Conventional Class A1R rate of rise heat detector (FL/1000B base)	550c/03
52051RE-xx-yy	Analogue addressable class A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
52051E-xx-yy	Analogue addressable class A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
5FA51R	Conventional A1R rate of rise heat detector (BFA1 base)	550c/08
52051REI-xx-yy	Analogue addressable class A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01
52051EI-xx-yy	Analogue addressable class A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) xx = (Range 0-99) ~ indicates the communication software protocol 2) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/02

Bases:

B401 standard base
B401DG deep base
B401R standard base with schottky diode
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
ECO1000B standard base
ECO1000BSD standard base with schottky diode
ECO1000BR standard base, 470 ohm resistor
ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
FL/B401 standard base
FL/1000B standard base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
BFA1 Standard Base

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Certificate No: 524c-(cl-1) to EN 54-20:2006

Aspirating Smoke Detectors
Certificated Products

LPCB Ref.
No.
524c/01

ALL-SPEC ASD

Notes:

- Approval of the detector is conditional upon the following requirements:
 - For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
 - System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1 HW.
 - The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.
- Approved detector configurations (Class A, Class B and Class C):
 - ALL-SPECx (standard version, no bargraph display, 1 alarm, not available for networking)
 - ALL-SPECx-FR (deep freeze version, no bargraph display, 1 alarm, not available for networking)
 - ALL-SPECx-SL (silent version, no bargraph display, 1 alarm, not available for networking)
X=detector 1 or 2
- The approved detector must incorporate one or two of the following detector modules:
 - ASD-TP-001-L (standard version, sensitivity of 0.015%/m)
 - ASD-TP-001-L-F (deep freeze version, sensitivity of 0.015%/m)
 - ASD-TP-01-L (standard version, sensitivity of 0.10%/m)
 - ASD-TP-01-L-F (deep freeze version, sensitivity of 0.10%/m)
 - ASD-TP-05-L (standard version, sensitivity of 0.50%/m)
 - ASD-TP-05-L-F (deep freeze version, sensitivity of 0.50%/m)
X=detector 1 or 2

HI-SPEC ASD

524c/03

Notes:

- Approval of the detector is conditional upon the following requirements:
 - For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
 - System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1 HW.
 - The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.
- Approved detector configurations (Class A, Class B and Class C):
 - HI-SPECx (standard version, bargraph display, 3 alarms, prepared for networking)
 - HI-SPECx-FR (deep freeze version, bargraph display, 3 alarms, prepared for networking)
 - HI-SPECx-SL (silent version, bargraph display, 3 alarms, prepared for networking)
- The approved detector must incorporate one or two of the following detector modules:
 - ASD-TT-001-L (standard version, sensitivity of 0.015%/m)
 - ASD-TT-001-L-F (deep freeze version, sensitivity of 0.015%/m)
 - ASD-TT-01-L (standard version, sensitivity of 0.10%/m)
 - ASD-TT-01-L-F (deep freeze version, sensitivity of 0.10%/m)
 - ASD-TT-05-L (standard version, sensitivity of 0.50%/m)
 - ASD-TT-05-L-F (deep freeze version, sensitivity of 0.50%/m)

COMPACT ASD

524c/04

Notes:

- Approval of the detector is conditional upon the following requirements:

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

- For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
 - System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1 HW.
 - The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.
2. Approved detector configurations, sensitivity of 0.50%/m (Class A, Class B and Class C):
- ASD-CM (version with 2 stages of alarm)
 - ASD-CM2 (version with 2 stages of alarm, ROOM IDENT)

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Certificate No: 199m-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 199ab-(cl-2) to EN 54-7: 2000 + A1: 2002 & EN 54-17: 2005

Point Smoke Detectors

Certificated Products

LPCB Ref.
No.

22051EI	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity</i>	199ab/01
72051EI	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) <i>Note:</i>	199ab/02
ECO1003	1. Meets the requirements of EN 54-7:2000 at high sensitivity Conventional Photoelectric Smoke Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199m/01
2351E	Conventional photoelectric smoke detector (B401, B40DG, B401R, B401SD and B401RSD bases) <i>Note: Meets the requirements of EN54-7:2000 at low, medium and high sensitivity settings</i>	199m/03
Vision 2020P	Conventional photoelectric detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199m/05
22051EISE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP, B524HTR and B524RTE bases) <i>Note: Meets EN54-7: 2000 at High, Normal & Low sensitivity settings</i>	199m/07
22051E	Analogue Addressable Optical Smoke Sensor (B501AP, B524IEFT-1 and B524HTR bases) <i>Note: Meets EN54-7: 2000 at High, Normal & Low sensitivity settings</i>	199m/10
ECO1003ABL	Conventional Photoelectric Smoke Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD bases)	199m/11

Bases:

2020B standard base

2020DB deep base

2020BSD standard base with schottky diode

2020DBSD deep base with schottky diode

B401 standard base

B401DG deep base

B401R standard base with 470 ohm resistor
 B401SD standard base with schottky diode
 B401RSD standard base with 470 ohm resistor and schottky diode
 B501 standard analogue detector base
 B501AP intelligent detector base
 B501DG analogue sensor deep base
 B524IEFT analogue sensor isolator base
 B524IEFT-1 analogue short circuit isolator base
 B524HTR heater base
 B524RTE latching relay base
 ECO1000B standard base.
 ECO1000BSD standard base with schottky diode.
 ECO1000BR standard base, 470 ohm resistor.
 ECO1000BRSD standard base, 470 ohm resistor and schottky diode.
 ECO1000BR680 standard base, 680 ohm resistor.
 ECO1000BR680SD standard base, 680 ohm resistor and schottky diode.
 ECO1000BR1000 standard base, 1000 ohm resistor.
 ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode.
 ECO1000DB deep base
 ECO1000DBR deep base with 470 ohm resistor
 ECO1000DBRSD deep base with 470 ohm resistor and schottky diode
 ECO2000B mounting base
 ECO1000BREL12L 12Vdc Relay base (latching)
 ECO1000BREL12NL 12Vdc Relay base (non-latching)
 ECO1000BREL24L 24Vdc Relay base (latching)

Certificate No: 199ac to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005
Certificate No: 199n-(cl-2) to EN 54-5: 2000 + A1: 2002

Point Heat Detectors
Certificated Products

		LPCB Ref. No.
52051EI	Analogue addressable class A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/01
52051HTEI	Analogue addressable class BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/02
52051REI	Analogue addressable class A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/03
ECO1005	Class A1R Conventional Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/01
ECO1005T	Class A2S Conventional Fixed Temperature Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/06
5351E	Class A1R conventional rate of rise heat detector (B401, B401DG, B401R, B401SD, & B401RSD bases)	199n/07
4351E	Class BS conventional heat detector (B401, B401DG, B401R, B401SD, & B401RSD bases)	199n/08
ECO1004T	Class BS Conventional High Temperature Heat Detector (ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 and ECO1000BR1000SD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)	199n/09
Vision 2020F	Class A2S conventional fixed temperature heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/10
Vision 2020HF	Class BS conventional fixed temperature heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/11
Vision 2020R	Class A1R conventional rate of rise heat detector (2020B, 2020DB, 2020BSD, 2020DBSD bases)	199n/12
5351TE	Conventional class A2S fixed temperature heat detector (B401, B401R, B401RSD, B401SD, B401DG bases)	199n/14
52051RE	Analogue addressable class A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/15
52051HTE	Analogue addressable class BS fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/16
52051E	Analogue addressable class A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/17
ECO1004TABL	Class BS Conventional High Temperature Heat Detector	199n/18

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COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
ECO1005ABL	(ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases) Class A1R Conventional Thermal Detector	199n/19
ECO1005TABL	(ECO1000DB, ECO1000DBR, ECO1000DBRSD, ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000 & ECO1000BR1000SD bases) Class A2S Conventional Fixed Temperature Heat Detector	199n/20

Bases:

2020B standard base
2020DB deep base
2020BSD standard base with schottky diode
2020DBSD deep base with schottky diode
B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B401R1000 standard base with 1000 ohm resistor
B401DGR deep base with 470 ohm resistor
B401DGR1000 deep base with 1000 ohm resistor
B401DGSD deep base with schottky diode
B501 standard analogue detector base
B501AP intelligent detector base
B501DG analogue sensor deep base
B524IEFT analogue sensor isolator base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
ECO1000B standard base.
ECO1000BSD standard base with schottky diode.
ECO1000BR standard base, 470 ohm resistor.
ECO1000BRSD standard base, 470 ohm resistor and schottky diode.
ECO1000BR680 standard base, 680 ohm resistor.
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode.
ECO1000BR1000 standard base, 1000 ohm resistor.
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode.
ECO2000B mounting base.
ECO1000DB deep base.
ECO1000DBR deep base with 470 ohm resistor
ECO1000DBRSD deep base with 470 ohm resistor and schottky diode
ECO1000BREL12L 12Vdc Relay base (latching)
ECO1000BREL12NL 12Vdc Relay base (non-latching)
ECO1000BREL24L 24Vdc Relay base (latching)

Certificate No: 199p-(cl-2) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 & CEA 4021: 2003

Certificate No: 199t to LPS 1279 - 1.0: 2006, EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A1: 2006 & CEA 4021: 2003

Certificate No: 199aa to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002, CEA 4021: 2003 & EN 54-17: 2005

Multi-criteria Detectors

Certificated Products		LPCB Ref. No.
22051TLEI	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/01
22051TEI	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/02
ECO1002	Conventional Photo-Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR,	199p/01

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.																
<p>ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD, ECO1000BREL12L, ECO1000BREL12NL and ECO1000BREL24L bases)</p> <p>Note: Meets the requirements of EN 54-5: 2000 at Class A1R and EN 54-7: 2000 at pre-set sensitivity</p>																	
<p>2351TEM Conventional optical/thermal detector (B401, B401DG, B401R, B401SD, & B401RSD bases)</p> <p>Note: Meets the requirements of EN54-5:2000 at class A1R and EN54-7:2000 at 'High' 'Medium' and 'Low' sensitivity settings.</p>	199p/03																
<p>Vision 2020PT Conventional photo thermal detector (2020B, 2020DB, 2020BSD and 2020DBSD bases)</p> <p>22051TLE Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)</p> <p>Note: Certified at the following settings: -</p> <p>Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003</p>	199p/04 199p/06																
<p>22051TE Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)</p> <p>Note: Certified at the following settings: -</p> <p>Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003</p> <p>Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p>	199p/07																
<p>ECO1002ABL Conventional Photo-Thermal Detector (ECO1000B, ECO1000BSD, ECO1000BR, ECO1000BRSD, ECO1000BR680, ECO1000BR680SD, ECO1000BR1000, ECO1000BR1000SD, ECO1000DB, ECO1000DBR and ECO1000DBRSD bases)</p> <p>Note : Meets the requirements of EN54:5-2000 at class A1R and EN54:7:2000 at pre-set sensitivity</p>	199p/08																
<p>2251CTLE-xx-yy Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501AP, B501DG, B524IEFT-1, B524HTR and B524RTE bases)</p> <p>Notes:</p> <p>1.) xx = (Range 0-99) ~ indicates the communication software protocol</p> <p>2.) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White</p> <p>3.) Certified at the following settings: -</p> <p>Normal Mode:</p> <p>Alarm Levels 1 to 5 (Multi-criteria) EN54-5 Class A1R, EN54-7, LPS1279 and CEA 4021</p> <p>Alarm Level 6 (Heat Only Mode): EN54-5 Class A1R</p> <p>Nuisance Environment Applications:</p> <table border="0" style="width: 100%;"> <tr> <td>Application 0, Alarm Level 4</td> <td>EN54-7, LPS1279 & CEA 4021</td> </tr> <tr> <td>Application 1, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 2, Alarm Level 4 or 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 3, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 4, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 5, Alarm Level 5</td> <td>EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 6, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 7, Alarm Level 5</td> <td>EN54-5 Class A1R, LPS1279 and CEA 4021</td> </tr> </table>	Application 0, Alarm Level 4	EN54-7, LPS1279 & CEA 4021	Application 1, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 2, Alarm Level 4 or 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 3, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 4, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 5, Alarm Level 5	EN54-7 & CEA 4021	Application 6, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 7, Alarm Level 5	EN54-5 Class A1R, LPS1279 and CEA 4021	199t/01
Application 0, Alarm Level 4	EN54-7, LPS1279 & CEA 4021																
Application 1, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021																
Application 2, Alarm Level 4 or 5	EN54-5 Class A1R, EN54-7 & CEA 4021																
Application 3, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021																
Application 4, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021																
Application 5, Alarm Level 5	EN54-7 & CEA 4021																
Application 6, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021																
Application 7, Alarm Level 5	EN54-5 Class A1R, LPS1279 and CEA 4021																

Bases:

- 2020B standard base
- 2020DB deep base
- 2020BSD standard base with schottky diode
- 2020DBSD deep base with schottky diode
- B401 standard base
- B401DG deep base
- B401R standard base with 470 ohm resistor
- B401SD standard base with schottky diode
- B401RSD standard base with 470 ohm resistor and schottky diode
- B401R1000 standard base with 1000 ohm resistor
- B401DGR deep base with 470 ohm resistor
- B401DGR1000 deep base with 1000 ohm resistor
- B401DGSD deep base with schottky diode
- B501 standard analogue detector base
- B501AP intelligent detector base
- B501DG analogue sensor deep base
- B524IEFT analogue sensor isolator base
- B524IEFT-1 analogue short circuit isolator base
- B524HTR heater base
- B524RTE latching relay base
- ECO1000B standard base
- ECO1000BSD standard base with schottky diode
- ECO1000BR standard base, 470 ohm resistor

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COMMERCIAL DETECTORS

ECO1000BRSD standard base, 470 ohm resistor and schottky diode
ECO1000BR680 standard base, 680 ohm resistor
ECO1000BR680SD standard base, 680 ohm resistor and schottky diode
ECO1000BR1000 standard base, 1000 ohm resistor
ECO1000BR1000SD standard base, 1000 ohm resistor and schottky diode
ECO1000DB deep base
ECO1000DBR deep base with 470 ohm resistor
ECO1000DBRSD deep base with 470 ohm resistor and schottky diode
ECO2000B mounting base
ECO1000BREL12L 12Vdc Relay base (latching)
ECO1000BREL12NL 12Vdc Relay base (non-latching)
ECO1000BREL24L 24Vdc Relay base (latching)

Certificate No: 199ad-(cl-1) to EN 54-20:2006

Certificate No: 199ae-(cl-2) to EN 54-17:2005 & EN 54-20:2006

Aspirating Smoke Detectors

Certificated Products

		LPCB Ref. No.
FL0111E-HS	Stand Alone Single Channel Aspirating Detector (F-INF-25 In line filter) Notes: <ol style="list-style-type: none">For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.The approval of the detector is conditional upon the following requirements:<ul style="list-style-type: none">Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ad/01
FL0112E-HS	Stand Alone Single Channel Unit Common Chamber Aspirating Detector (F-INF-25 In line filter) Notes: <ol style="list-style-type: none">This device has single channel capability with two high sensitivity smoke sensors in a common chamber.For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.The approval of the detector is conditional upon the following requirements:<ul style="list-style-type: none">Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ad/02
FL0122E-HS	Stand Alone Dual Channel Aspirating Detector (F-INF-25 In line filter) Notes: <ol style="list-style-type: none">For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.The approval of the detector is conditional upon the following requirements:<ul style="list-style-type: none">Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)	199ad/03
FL2011EI-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) Notes: Notes: <ol style="list-style-type: none">For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4.The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.The approval of the detector is conditional upon the following requirements:	199ae/01

Certificated Products	LPCB Ref. No.
<p>FL2012EI-HS</p> <p>Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber. 2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 4. The approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none"> • Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx). 	<p>199ae/02</p>
<p>FL2022EI-HS</p> <p>Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none"> • Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx). 	<p>199ae/03</p>

Accessories
F-INF-25 In line filter

Horing LIH Industrial Co Ltd

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Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors

Certificated Products	LPCB Ref. No.
AHS-871	506a/01
AH-0311-2	506a/02
AH-0311-3	506a/03
AH-0311-4	506a/04
Q01-2	506a/05
Q01-3	506a/06
Q01-4	506a/07

Bases:
AHMB-031 mounting base
AHMB-L mounting base
AHMB-061-2 Standard base
AHMB-061-3 Standard base
AHMB-061-4 Standard base
AHMB-071-2 Base Unit
AHMB-071-3 Base Unit
AHMB-071-4 base Unit

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 506b to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-5: 2000 + A1: 2002 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
AH-0315-2	(2 wire) Optical smoke and class A2 heat detector (AHMB-031 Base)	506b/01
AH-0315-3	(3 wire) Optical smoke and class A2 heat detector (AHMB-031 Base)	506b/02
AH-0315-4	(4 wire) Optical smoke and class A2 heat detector (AHMB-031 Base)	506b/03
Q05-2	Conventional 2-wire optical smoke and class A2 heat detector (AHMB-061-2 and AHMB-071-2 bases)	506b/04
Q05-3	Conventional 3-wire optical smoke and class A2 heat detector with remote LED (AHMB-061-3 and AHMB-071-3 bases)	506b/05
Q05-4	Conventional 4-wire optical smoke and class A2 heat detector with relay output (AHMB-061-4 and AHMB-071-4 bases)	506b/06

Bases:

AHMB-031 mounting base
AHMB-061-2 Standard base
AHMB-061-3 Standard base
AHMB-061-4 Standard base
AHMB-071-2 Base Unit
AHMB-071-3 Base Unit
AHMB-071-4 base Unit

Certificate No: 506c to EN 54-5: 2000 + A1: 2002

Point Heat Detector

Certificated Products

		LPCB Ref. No.
AH-0316-2	(2 wire) Conventional Class A2 rate of rise and fixed temperature heat detector (AHMB-031 Base)	506c/01
AH-0316-3	(3 wire) Conventional three wire rate of rise and fixed temperature heat detector (AHMB-031 Base)	506c/02
AH-0316-4	(4 wire) Conventional four wire rate of rise and fixed temperature heat detector (AHMB-031 Base)	506c/03
Q06-2	Conventional 2-wire Class A2 heat detector (AHMB-061-2 and AHMB-071-2 bases)	506c/04
Q06-3	Conventional 3-wire Class A2 heat detector with remote LED (AHMB-061-3 and AHMB-071-3 bases)	506c/05
Q06-4	Conventional 4-wire Class A2 heat detector with relay output (AHMB-061-4 and AHMB-071-4 bases)	506c/06

Bases:

AHMB-031 mounting base
AHMB-061-2 Standard base
AHMB-061-3 Standard base
AHMB-061-4 Standard base
AHMB-071-2 Base Unit
AHMB-071-3 Base Unit
AHMB-071-4 base Unit

Certificate No: 506g to EN 54-10:2002 + A1:2005

Certificated Products

		LPCB Ref. No.
IR-0714-2	Infrared Single Flame Detector (AHMB-071) Note: Meets EN 54-10:2002 at Class 2 and 3 Sensitivity	506g/01
IR-0814-2	Infrared Dual Flame Detector (AHMB-071) Note: Meets EN 54-10:2002 at Class 2 and 3 Sensitivity	506g/02

AHMB-071 Mounting Base

Certificate No: 506h to EN 54-12:2015

Certificated Products

		LPCB Ref. No.
EDB01	Reflective Beam Smoke Detector Notes: 1. Meets the requirements of EN 54-12: 2015 at sensitivity settings 18%, 25%, 35% and 50% 2. Suitable for use at the following separation ranges: a) 5 to 20 metres Short Path (1 x prism reflector required) b) 20 to 50 metres Short Path (1 x prism reflector required) c) 50 to 70 metres Normal Path (4 x prism reflector required) d) 70 to 100 metres Long Path (4 x prism reflector required)ctive Beam Smoke Detector	506h/01

Accessories:

1 x Prism Reflector
4 x Prism Reflector

INIM Electronics S.R.L

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Certificate No: 991a to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Certificate No: 991b to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, CEA 4021:2003

Certificated Products

		LPCB Ref. No.
ID300	Conventional Multi-Criteria Detector (EB0010 and EB0020 bases) Notes: 1) Meets EN 54-7:2000 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets EN 54-5:2000 at class A1R and class B.	991a/01
ED300	Intelligent Analogue Addressable Multi-Criteria Detector with Short Circuit Isolator (EB0010 and EB0020 bases) Notes: 1) Meets EN 54-7:2000 with Low, Medium-Low, Medium-High and High sensitivities. 2) Meets the requirements of EN 54-5:2000 at class A1R and class B.	991b/01

Bases:

EB0010 Standard Base
EB0020 Relay Base

Certificate No: 991c to EN 54-7:2000 + A1:2002 + A2:2006

Certificate No: 991d to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ID100	Conventional Optical Smoke Detector (EB0010 and EB0020 bases) Note: Meets EN 54-7:2000 with Low, Medium-Low, Medium-High and High sensitivities.	991c/01
ED100	Intelligent Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (EB0010 and EB0020 bases). Note: 1) Meets EN 54-7:2000 with Low, Medium-Low, Medium-High and High sensitivities.	991d/01

Bases:

EB0010 Standard Base
EB0020 Relay Base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 991e to EN 54-5:2000 + A1:2002
Certificate No: 991f to EN 54-5:2000 + A1:2002, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ID200	Conventional Class P Heat Detector (EB0010 and EB0020 bases) Note: 1) Meets EN 54-5:2000 at class A1R and class B	991e/01
ED200	Intelligent Analogue Addressable Class P Heat Detector with Short Circuit Isolator (EB0010 and EB0020 bases). Note: 1) Meets the requirements of EN54-5: 2000 at class A1R & class B	991f/01

Bases:
EB0010 Standard Base
EB0020 Relay Base

KMW Systems S.R.L.

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Tel: 0040232247288
E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174a-(cl-7) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Approved Products

Smoke Detectors		LPCB Ref. No.
KM-FC5100	Conventional Optical Smoke Detector (KM-FC5101 base) Note: 1. Meets the requirements of EN 54-7: 2000 at default sensitivity setting only <i>Bases</i> <i>KM-FC5101</i> <i>Base</i> <i>KM-FA6101</i> <i>Digital Detector Base</i>	1174a/01
KM-FA6100	Digital Smoke Detector (KM-FC6101 base) Note: 1. Meets the requirements of EN 54-7:2000 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low) <i>Bases</i> <i>KM-FC5101</i> <i>Base</i> <i>KM-FA6101</i> <i>Digital Detector Base</i>	1174a/02

Certificate No: 1174b-(cl-7) to EN 54-5:2000 + A1:2002

Heat Detectors

Approved Products

Heat Detectors		LPCB Ref. No.
KM-FC5110	Conventional Heat Detector (KM-FC5101 base) Note: 1. Meets the requirements of EN 54-5 2000 at class A2R <i>Bases</i> <i>KM-FC5101</i> <i>Base</i> <i>KM-FA6101</i> <i>Digital Detector Base</i>	1174b/01
KM-FA6110	Digital Heat Detector (KM-FA6101 base) Note: 1. Meets the requirements of EN 54-5:2000 at class A1R and A2 <i>Bases</i> <i>KM-FC5101</i> <i>Base</i> <i>KM-FA6101</i> <i>Digital Detector Base</i>	1174b/02

Certificate No: 1174f-(cl-7) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors
Certificated Products

KM-FA6120 Digital Multi-Sense Detector (KM-FA6101 base)

Notes:

- 1) Meets the requirements of EN 54-5:2000 at Class A1R and A2
- 2) Meets the requirements of EN 54-7:2000 at the following sensitivity settings
 - Smoke Mode 2 and A1R
 - Smoke Mode 2 and A2
 - Smoke Mode 2 (Smoke only), heat disabled

Base

KM-FA6101 Digital Detector Base

LPCB Ref.
No.
1174f/01

KOD ELEKTRONIK GÜVENLİK SİSTEMLERİ SANAYİ VE TİCARET LTD. STİ

Perpa Ticaret Merkezi, B Blok KAT 11 No 1937, Okmeydani Sisli, Istanbul 34384, Turkey

Tel: +902123209595 • Fax: +902123209598

E-mail: info@codesectech.com • Website: www.codesectech.com

Certificate No: 1283a-(cl-3) to EN 54-12: 2002

Beam Detectors

Certificated Products

BM100 Conventional Optical Beam Smoke Detector (Double Pass)

Notes:

1. Meets the requirements of EN 54-12 at the following sensitivity settings only:
 - 18% obscuration high sensitivity at between 5-20m
 - 30% obscuration medium sensitivity at between 20-100m
2. Suitable for use with BM50-1 prismatic reflector over distances from 5 to 50m
3. Suitable for use with BM100-4 set of reflectors over distances from 50 to 100m

LPCB Ref.
No.
1283a/01

Ancillaries

BM50-1 Single prism reflector

BM100-4 Set of 4 x prism reflectors

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria

Tel: +43 1 52114-44 • Fax: +43 1 52114-27

E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928e-(cl-11) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 928k-(cl-10) to EN 54-7:2000 + A1:2002 + A2:2006 EN 54-25:2008

Certificated Products

FC650/O Conventional Photo Detector
(FC600/B, FC600/BR and FC600/BRD bases)

FI720/RF/O Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)

Notes:

1. Meets the requirements of EN 54-7 at the following sensitivity settings:
 - Level 1 - High
 - Level 2 - Normal
 - Level 3 - Low
2. The device must be used with the following battery type only:
 - CR123A (3 Vdc) - Primary and Secondary Battery

LPCB Ref.
No.
928e/02

928k/02

Bases

FC600/B Universal adaptor base

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COMMERCIAL DETECTORS

FC600/BR	Universal adaptor base with resistor
FC600/BRD	Universal adaptor base with resistor and Schottky diode
F1750/B	Low profile adaptor base
WAB100	Wireless Adaptor Base

Certificate No: 928j-(cl-10) to EN54-5:2000 +A1:2002 EN 54-25:2008

Point Heat Detector

Certificated Products

FI720/RF/T	Wireless Libra Addressable Class P Heat Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery
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LPCB Ref.
No.
928j/02

Base

FI750/B	Low profile adaptor base
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Certificate No: 928d-(cl-11) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

FC650/TDIFF/57	Conventional Class A1R Thermal Detector (FC600/B, FC600/BR and FC600/BRD bases)
FC650/TMAX/78	Conventional Class B Thermal Detector (FC600/B, FC600/BR and FC600/BRD bases)

LPCB Ref.
No.
928d/02
928d/02

Bases

FC600/B	Universal adaptor base
FC600/BR	Universal adaptor base with resistor
FC600/BRD	Universal adaptor base with resistor and Schottky diode

Certificate No: 928m-(cl-10) to EN 54-5:2000 + A1:2002 EN 54-7:2000 +A1:2002 + A2:2006 EN 54-25:2008 CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

FI720/RF/OT	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery
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LPCB Ref.
No.
928m/02

Base

FI750/B	Low profile adaptor base
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Certificate No: 926a to EN 54-7:2000 + A1:2002 + A2:2006

Point Smoke Detectors

Certificated Products

MG-9100	Intelligent analogue addressable system photoelectric smoke detector (MG-3510 base)
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LPCB Ref.
No.
926a/01

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
MGR-2100 MaviGard Conventional Photo-Electric Smoke Detector with Relay Output (MG-3550 base) <i>Note:</i> 1. <i>Meets the requirements of EN 54-7:2000 at the default sensitivity</i> 2. <i>The relay output is not certified to EN 54-18:2005</i>	926a/02
ML-2110 Maxlogic Conventional System Photoelectric Smoke Detector (ML-0140, ML-0121, ML-0150)	926a/03

Bases:
 MG-3510 Standard Mounting Base
 MG-3550 Mavigard Detector Mounting Base
 ML-0140 MaxLogic Detector Base
 ML-0121 Surface Mounting Back Box
 ML-0150 Recessed Mounting Base

Certificate No: 926b to EN 54-5:2000 + A1:2002

Point Heat Detectors
Certificated Products

Certificated Products	LPCB Ref. No.
MG-9300 Intelligent analogue addressable system class A1R rate of rise heat detector (MG-3510 base)	926b/01
ML-2120 Maxlogic Conventional System A1S Fixed Heat Detector (ML-0140, ML-0121, ML-0150)	926b/02
ML-2130 Maxlogic Conventional System A1R Rate of Rise Heat Detector (ML-0140, ML-0121, ML-0150)	926b/03

Bases:
 MG-3510 Standard Mounting Base
 ML-0140 MaxLogic Detector Base
 ML-0121 Surface Mounting Back Box
 ML-0150 Recessed Mounting Base

Certificate No: 926c to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003
Certificate No: 926p to EN 54-5:2000 +A1:2002 & EN 54-7:2000 +A1:2002 +A2:2006

Multi-criteria Detectors
Certificated Products

Certificated Products	LPCB Ref. No.
MG-9400 Intelligent analogue addressable system class A1R multisensor detector (MG-3510 base)	926c/01
MGR-2500 MaviGard Conventional Multisensor (Photoelectric Smoke & Heat) Detector with Relay Output (MG-3550 base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5: 2000 at Class A1R</i> 2. <i>Meets the requirements of EN 54-7: 2000 at the default sensitivity</i> 3. <i>The relay output is not certified to EN 54-18:2005</i>	926p/01
ML-2140 Maxlogic Conventional System Multisensor (Photoelectric Smoke & Heat) Detector (ML-0140, ML-0121, ML-0150) <i>Notes:</i> 1. Meets the requirements of EN 54-5:2000 at Class A1R 2. Meets the requirements of EN 54-7:2000 at the default sensitivity	926p/02

Bases:
 MG-3510 Standard Mounting Base
 MG-3550 Mavigard Detector Mounting Base
 ML-0140 MaxLogic Detector Base
 ML-0121 Surface Mounting Back Box
 ML-0150 Recessed Mounting Base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 926m to EN 54-12:2015 & EN 54-17:2005

Certificate No: 926j to EN 54-12:2015

Beam Detectors

Certificated Products

		LPCB Ref. No.
ML-2170	Maxlogic Conventional Beam Type Smoke Detector (incorporating ML-2171 & ML-2172) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following Optical way distance settings: - 1: 5 to 25 metres - 2: 25 to 50 metres - 3: 50 to 75 metres - 4: 75 to 100 metres	926j/01
ML-2173	Maxlogic Conventional Reflector Beam Type Smoke Detector (incorporating ML-0171 or ML-0174) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following distances: - 5 to 35 metres using one reflector panel - 35 to 50 metres using four reflector panels	926j/02
ML-1170.SCI	Maxlogic Intelligent Analogue Addressable Beam Type Smoke Detector with Short Circuit Isolator (incorporating ML-1171 & ML-1172) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following Optical way distance settings: - 1: 5 to 25 metres - 2: 25 to 50 metres - 3: 50 to 75 metres - 4: 75 to 100 metres	926m/01
ML-1173.SCI	Maxlogic Intelligent Analogue Addressable Reflector Beam Type Smoke Detector with Short Circuit Isolator (incorporating ML-0171 or ML-0174) Notes: 1. Meets the requirements of EN 54-12:2015 at the sensitivity setting 25% obscuration. 2. Suitable for use at the following distances: - 5 to 35 metres using one reflector panel - 35 to 50 metres using four reflector panels	926m/02

Ancillaries

ML-0171	Single Reflector Panel
ML-0174	4 x Single Reflector Panel
ML-1171	Receiver
ML-1172	Transmitter

Morley-IAS by Honeywell, Pittway Tecnologica Srl

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Certificate No: 199n to EN 54-5: 2000 + A1: 2002

Certificate No: 199ac to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
MI-FHSE-S2I	Analogue addressable class A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/01
MI-HTSE-S2I	Analogue addressable class BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases)	199ac/02
MI-RHSE-S2I	Analogue addressable class A1R rate of rise heat sensor with short circuit isolator	199ac/03

Certificated Products	LPCB Ref. No.
MI-RHSE-S2 (B501AP, B524HTR and B524RTE bases) Analogue addressable class A1R rate of rise heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/15
MI-HTSE-S2 Analogue addressable class BS fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/16
MI-FHSE-S2 Analogue addressable class A1S fixed temperature heat sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)	199n/17

Bases:

B501 standard analogue detector base
 B501DG analogue deep base
 B524IEFT analogue short circuit isolator base
 B501AP intelligent sensor base
 B524IEFT-1 short circuit isolator
 B524HTR heater base
 B524RTE latching relay base
 HRZ-1000BSD standard base with Schottky diode

Certificate No: 199p to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 & CEA 4021: 2003
Certificate No: 199aa to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002, CEA 4021: 2003 & EN 54-17: 2005

Multi-criteria Detectors

Certificated Products	LPCB Ref. No.
MI-PTIR-S2I Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/01
MI-PTSE-S2I Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/02
MI-PTIR-S2 Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199p/06
MI-PTSE-S2 Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199p/07

Bases:

B501 standard analogue detector base
 B501AP intelligent detector base
 B501DG analogue sensor deep base
 B524IEFT analogue short circuit isolator base
 B524IEFT-1 analogue sensor short circuit isolator base
 B524HTR heater base
 B524RTE latching relay base
 HRZ-1000BSD standard base with Schottky diode

Certificate No: 199m to EN 54-7: 2000 + A1: 2002
Certificate No: 199ab-(cl-3) to EN 54-7: 2000 + A1: 2002 & EN 54-17: 2005

Point Smoke Detectors

Certificated Products	LPCB Ref. No.
MI-PSE-S2I Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity</i>	199ab/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
MI-LZR-S3I	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) Note: 1. Meets the requirements of EN 54-7:2000 at high sensitivity	199ab/02
MI-PSE-S2	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity	199m/10

Bases:

B501 analogue detector base
B501DG analogue deep base
B524IEFT analogue short circuit isolator base
B501AP intelligent sensor base
B524IEFT-1 short circuit isolator base
B524HTR heater base
B524RTE latching relay base
HRZ-1000BSD standard base with Schottky diode

Beam Detectors

Certificate No: 199ae-(cl-1) to EN54-17: 2005 & EN54-20: 2006

Aspirating Smoke Detectors

Certificated Products

		LPCB Ref. No.
MI-FL2011EI-HS	Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipelQ software. 3. The approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none">Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx)	199ae/01
MI-FL2012EI-HS	Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. This device has single channel capability with two high sensitivity smoke sensors in a common chamber. 2. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipelQ software. 4. The approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none">Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/02
MI-FL2022EI-HS	Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter) Notes: 1. For compliance with Clause 5.10 of EN54-20: 2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipelQ software. 3. The approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none">Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).	199ae/03

Accessories
F-INF-25 In line filter

Multron Systems Pte Ltd

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Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
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Certificate No: 1148a to EN 54-5: 2000 + A1: 2002
Certificate No: 1330c-(cl-3) to EN 54-5:2000+A1: 2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
DET-C632	Conventional rate of rise & fixed temperature heat detector standard base) <i>Note:</i> <i>Meets the requirements of EN 54-5 at Class A2R</i>	1148a/01
MX110	Intelligent Heat Detector (MX980 base) <i>Note:</i> <i>1 Meets the requirements of EN 54-5 for Class A1R</i>	1330c/01

Bases:

DZ-03 Standard detector base
DB-6 Standard detector base
DB1 Mounting base
MX980 Base

Certificate No: 1148b to EN 54-7:2001 + A1: 2002 + A2: 2006
Certificate No: 1330b-(cl-3) to EN 54-7:2000+ A1:2002 + A2:2006

Photoelectric Smoke Detectors

Certificated Products

		LPCB Ref. No.
DET-C631	Conventional optical smoke detector (DB-6 Standard base) <i>Note:</i> <i>Meets the requirements of EN 54-7 in the normal sensitivity setting.</i>	1148b/01
MX100	Intelligent Smoke Detector (MX980 base)	1330b/01

Bases:

DZ-03 Standard detector base
DB-6 Standard detector base
DB1 Mounting base
MX980 Base

Certificate No: 1330a-(cl-2) to EN 54-12: 2015

Beam Detectors

Certificated Products

		LPCB Ref. No.
DET 640RB	Conventional Reflective Beam Detector <i>Notes:</i> 1. <i>Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:</i> - <i>Level 1: 2.6 dB High sensitivity</i> - <i>Level 2: 3.8 dB Medium sensitivity</i> - <i>Level 3: 5.8 dB Low sensitivity</i> 2. <i>Suitable for use at the following separation ranges:</i> - <i>Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)</i> - <i>Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)</i> - <i>Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)</i> - <i>Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)</i>	1330a/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Accessories

Mounting Bracket
DET-640RB-R 1 x Mirror Reflector
DET-640RB-R 4 x Mirror Reflector

Heat Detectors

Bases

DB1 Mounting base

Nittan Europe Limited

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E-mail: sales@nittan.co.uk • Website: www.nittan.co.uk

Certificate No: 041f to EN54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 755a-(cl-1) to EN54-7:2018

Certificate No: 1461a-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
EV-P	Analogue Addressable Optical Smoke Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases) <i>Note: Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings only.</i>	041f/01
EVC-P	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE, UB-4, UB-4-EV, UB-4SD, STB-4SE-EV and UB-6-EV bases)	041f/03
EVC-P	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE, STB-4SE-EV, UB-4, UB-4-EV, UB-4SD bases, and UB-6-EV bases)	1461a/01
ST-P-OM	Conventional Optical Smoke Detector (STB-4SE-24VR, STB-4SE, STB-4SE-EV, UB-4, UB-4R-470, UB-4SDR-470 and UB-6-EV bases)	1461a/02
ST-PY-AS	Analogue Addressable Photoelectric Smoke Detector (STB-4SE, UB-4 and UB-6-EV bases) <i>Note:</i>	1461a/03
EV-P	Analogue Addressable Photoelectric Smoke Detector (STB-4SE-EV, UB-4, UB-4-EV and UB-6-EV bases) <i>Note:</i>	1461a/04
EVC-DP	Conventional Dual Optical Smoke Detector (STB-4, STB-4SD, STB-4SE, STB-4SE-24VR, UB-4 and UB-5 bases)	755a/01

Bases

STB-4SE-EV Standard Deep Mounting base
STB-4SE Standard Deep mounting base
STB-4SE-24VR Relay Mounting base
UB-4 Universal Mounting base
UB-4-EV Universal Mounting base
UB-4SD Mounting base with Schottky Diode
UB-4R-470 Standard base with 470 ohm Resistor
UB-4SDR-470 Standard base with Schottky diode and 470 ohm Resistor
UB-6-EV Universal Mounting base

Certificate No: 041h to EN 54-5: 2000 + A1: 2002

Certificate No: 1461c-(cl-1) to EN 54-5:2000 + A1:2002

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
EV-H-A1R	Analogue Addressable Class A1R Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	041h/01
EV-H-CS	Analogue Addressable Class CS Heat Detector (STB-4SE-EV and UB-6-EV bases)	041h/02

Certificated Products

		LPCB Ref. No.
EVC-H-A2S	Conventional Class A2S Heat Detector	041h/03
EVC-H-CS	Conventional Class CS Heat Detector	041h/04
EVC-H-A2S	Conventional Class A2S Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	1461c/01
EVC-H-CS	Conventional Class CS Heat Detector (UB-4,UB-4-EV,UB-4SD, STB-4SE-EV and UB-6-EV bases)	1461c/02
EV-H-A1R	Analogue Addressable Class A1R Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	1461c/03
EV-H-CS	Analogue Addressable Class CS Heat Detector (UB-4,UB-4-EV, STB-4SE-EV and UB-6-EV bases)	1461c/04

Bases

UB-4 Universal base
UB-4-EV Universal base
UB-4SD Universal base with Shottky diode
UB-6-EV Universal Mounting base
STB-4SE-EV mounting base

Certificate No: 041g to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1:2002 + A2: 2006 and CEA4021: 1999
Certificate No: 1461b-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-5:2000 + A1:2002, CEA4021:1999

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
EV-PH	Analogue Addressable Optical Smoke / Class A1R Heat Detector STB-4SE-EV and UB-6-EV bases) <i>Note: Meets the requirements of EN 54-7 at 'Lowest' and 'Highest' sensitivity settings.</i>	041g/01
EV-PH	Analogue Addressable Optical Smoke / Class A1R Heat Detector (UB-4, UB-4-EV, STB-4SE-EV and UB-6-EV bases) <i>Note:</i> Meets the requirements of EN 54-7 at Lowest and Highest sensitivity settings.	1461b/01

Bases

UB-4 Universal base
UB-4-EV Universal base
UB-6-EV Universal Mounting base
STB-4SE-EV mounting base

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Certificate No: 199m to EN 54-7: 2000 + A1: 2002
Certificate No: 199ab-(cl-4) to EN 54-7: 2000 + A1: 2002 & EN 54-17: 2005

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
NFXI-OPT	Analogue addressable optical smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity</i>	199ab/01
NFXI-VIEW	High Sensitivity Point Optical Smoke Detector with Short Circuit Isolator (B501AP) <i>Note:</i> 1. Meets the requirements of EN 54-7:2000 at high sensitivity	199ab/03
SD-851E	Conventional photoelectric smoke detector (B401 base)	199m/03
IDX-751 AE	Intrinsically safe analogue addressable photoelectric smoke detector (B501, B501AP bases) <i>Note: Meets EN54-7: 2000 at High, Normal & Low sensitivity settings</i>	199m/07
NFX-OPT	Analogue addressable optical smoke sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases) <i>Note: Meets the requirements of EN 54-7: 2000 at high and low sensitivity</i>	199m/10

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Bases:

B501 base
B401 base
B501DG deep base
B5241EFT short circuit isolator base
B5241EFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base
B501AP Intelligent detector base

Certificate No: 199n to EN 54-5: 2000 + A1: 2002

Certificate No: 199ac to EN 54-5: 2000 + A1: 2002 & EN 54-17: 2005

Point Heat Detectors

Certificated Products

		LPCB Ref. No.
NFXI-TFIX58	Analogue addressable class A1S fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/01
NFXI-TFIX78	Analogue addressable class BS fixed temperature heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/02
NFXI-TDIFF	Analogue addressable class A1R rate of rise heat sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases)	199ac/03
FD-851RE	Conventional Class A1R rate of rise heat detector (B401 base)	199n/07
FD-851HTE	Conventional Class BS heat detector (B401 base)	199n/08
FD-851TE	Conventional Class A2S Fixed Temperature Heat Detector (B401, B401R, B401SD, B401RSD, B401DG, B401DGR, B401DGSD and B401DGRSD bases)	199n/14
NFX-TDIFF	Analogue addressable class A1R rate of rise heat sensor (B501AP, B501, B5241EFT-1, B524HTR & B524RTE bases)	199n/15
NFX-TFIX78	Analogue addressable class BS fixed temperature heat sensor (B501AP, B501, B5241EFT-1, B524HTR & B524RTE bases)	199n/16
NFX-TFIX58	Analogue addressable class A1S fixed temperature heat sensor (B501AP, B501, B5241EFT-1, B524HTR & B524RTE bases)	199n/17

Bases:

B501 base
B401 base
B401R standard base with resistor
B401RSD standard base with resistor and schottky diode
B401SD standard base with schottky diode
B401DG deep base
B501AP intelligent sensor base
B5241EFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Certificate No: 199p to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 & CEA 4021: 2003

Certificate No: 199t to LPS 1279 - 1.0: 2006, EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 & CEA 4021: 2003

Certificate No: 199aa to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002, CEA 4021: 2003 & EN 54-17: 2005

Multi-criteria Detectors

Certificated Products

		LPCB Ref. No.
NFXI-SMT3	Analogue addressable photo-thermal-IR multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/01
NFXI-SMT2	Analogue addressable photo-thermal multi-criteria smoke sensor with short circuit isolator (B501AP, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i> Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	199aa/02
SD-851TE	Conventional photoelectric/thermal detector (B401 base) <i>Note: Meets the requirements of EN54-7: 2000 at "High", "Medium" and "Low" sensitivity settings</i>	199p/03
NFX-SMT3	Analogue addressable photo-thermal-IR multi-criteria sensor (B501AP, B501, B5241EFT-1, B524HTR & B524RTE bases) <i>Note: Certified at the following settings: -</i>	199p/06

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.														
<p>Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003</p> <p>Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p> <p>NFX-SMT2 Analogue addressable photo-thermal multi-criteria sensor (B501AP, B501, B524IEFT-1, B524HTR & B524RTE bases)</p> <p><i>Note: Certified at the following settings: -</i></p> <p>Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003</p> <p>Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p> <p>IRX-751CTEM Analogue addressable multi-criteria fire detector incorporating CO, photoelectric, thermal and IR sensors (B501, B501DG and B524IEFT-1 bases)</p> <p><i>Note: Certified at the following settings: -</i></p> <p><i>Normal Mode:</i></p> <p>Alarm Levels 1 to 5 (Multi-criteria): EN54-5 Class A1R, EN54-7, LPS1279 and CEA 4021</p> <p>Alarm Level 6 (Heat Only Mode): EN54-5 Class A1R</p> <p><i>Nuisance Environment Applications:</i></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Application 0, Alarm Level 4</td> <td style="width: 33%;">EN54-7, LPS1279 & CEA 4021</td> </tr> <tr> <td>Application 1, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 2, Alarm Level 4 or 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 3, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 4, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 5, Alarm Level 5</td> <td>EN54-7 & CEA 4021</td> </tr> <tr> <td>Application 6, Alarm Level 5</td> <td>EN54-5 Class A1R, EN54-7 & CEA 4021</td> </tr> </table>	Application 0, Alarm Level 4	EN54-7, LPS1279 & CEA 4021	Application 1, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 2, Alarm Level 4 or 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 3, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 4, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	Application 5, Alarm Level 5	EN54-7 & CEA 4021	Application 6, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021	<p>199p/07</p> <p>199t/01</p>
Application 0, Alarm Level 4	EN54-7, LPS1279 & CEA 4021														
Application 1, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021														
Application 2, Alarm Level 4 or 5	EN54-5 Class A1R, EN54-7 & CEA 4021														
Application 3, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021														
Application 4, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021														
Application 5, Alarm Level 5	EN54-7 & CEA 4021														
Application 6, Alarm Level 5	EN54-5 Class A1R, EN54-7 & CEA 4021														

Bases:

- B501 base
- B401 base
- B501DG deep base
- B524IEFT-1 analogue short circuit isolator base
- B501AP intelligent sensor base
- B524HTR heater base
- B524RTE latching relay base

Certificate No: 199af-(cl-1) to EN54-17: 2005 & EN54-20: 2006

Aspirating Smoke Detectors

Certificated Products	LPCB Ref. No.
<p>NFXI-ASD11-HS Analogue Addressable Single Channel Loop-Based Aspirating Detector (F-INF-25 In line filter)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx). 	<p>199af/01</p>
<p>NFXI-ASD12-HS Analogue Addressable Loop-Based Single Channel Unit Common Chamber Aspirating Detector, Dual Sensors (F-INF-25 In line filter)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software. 3. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx). 	<p>199af/02</p>
<p>NFXI-ASD22-HS Analogue Addressable Dual Channel Loop-Based Aspirating Detector, Dual Sensors (F-INF-25 In line filter)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. For compliance with Clause 5.10 of EN54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 2. The device is approved for sensitivity Classes A, B and C. The Class of any 	<p>199af/03</p>

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeIQ software.

3. The approval of the detector is conditional upon the following requirements:
- Design including accessories used, installation and commissioning are performed in accordance with the Advanced Set-up and Control Guide (I56-3888-xxx).

F-INF-25 In line filter

Notifier Fire Systems India

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Certificate No: 550b to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Certificate No: 550e to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products

LPCB Ref.
No.

NFX-SMT2-yy	Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Notes: 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550b/05
NFXI-SMT2-yy	Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) Notes: 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R	550e/02

Bases:

B501 Standard base
B501DG Deep analogue detector base
B5242EFT-1 Short circuit isolator base
B501AP intelligent detector base
B524HTR heater base
B524RTE latching relay base

Certificate No: 550c to EN 54-5: 2000 + A1: 2002

Certificate No: 550f to EN 54-5: 2000 + A1: 2002 and EN 54-17: 2005

Point Heat Detectors

Certificated Products

LPCB Ref.
No.

NFX-TDIFF-yy	Analogue addressable class A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/06
NFX-TFIX58-yy	Analogue addressable class A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) Note: 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550c/07
NFXI-TDIFF-yy	Analogue addressable class A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) Note: 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White	550f/01

Certificated Products

NFXI-TFIX58-yy Analogue addressable class A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases)
Note:
 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White

LPCB Ref. No.
550f/02

Bases:

B501 Standard base
 B501DG Deep analogue detector base
 B542IEFT-1 Short circuit isolator base
 B501AP intelligent detector base
 B524HTR heater base
 B524RTE latching relay base

Certificate No: 550a to EN 54-7: 2000 + A1: 2002 + A2: 2006
Certificate No: 550d to EN54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products

NFX-OPT-yy Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases)
Notes:
 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White
 2) Meets the requirements of EN 54-7: 2000 at high and low sensitivity

NFXI-OPT-yy Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases)
Notes:
 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White
 2) Meets the requirements of EN 54-7: 2000 at high and low sensitivity

LPCB Ref. No.
550a/04

550d/01

Bases:

B501 standard analogue detector base
 B501DG deep analogue detector base
 B524IEFT-1 analogue short circuit isolator base
 B501AP intelligent detector base
 B524HTR heater base
 B524RTE latching relay base

nuhas oman

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India
 Tel: +91 124 4752700 • Fax: +91 124 4752750
 E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550m-(cl-1) to EN 54-5: 2000 + A1:2002
Certificate No: 550p-(cl-1) to EN 54-5:2000 + A1:2002 & EN 54-17:2005

Heat Detectors

Certificated Products

HM-RHSE Analogue Addressable Class A1R Rate of Rise (ROR) Heat Detector (MI-B501AP)
Note:
 1. Communication software protocol (05)

HM-FHSE Analogue Addressable Class A1S Fixed Temperature Heat Detector (MI-B501AP)
Note:
 1. Communication software protocol (05)

HM-RHSE-I Analogue Addressable Class A1R Rate of Rise (ROR) Heat Detector with Short Circuit Isolator (MI-B501AP)
Note:
 1. Communication software protocol (05)

HM-FHSE-I Analogue Addressable Class A1S Fixed Temperature Heat Detector with Short Circuit Isolator (MI-B501AP)

LPCB Ref. No.
550m/01

550m/02

550p/01

550p/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

- Note:
1. Communication software protocol (05)

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550n-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Certificate No: 550q-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-17:2005

Smoke Detectors

Certificated Products

LPCB Ref.
No.

HM-PSE	Analogue Addressable Optical Smoke Detector (MI-B501AP) Notes: 1. Communication software protocol (05)	550n/01
HM-PSE-S2	Analogue Addressable Optical Smoke Detector (MI-B501AP) Notes: 1. Communication software protocol (19) 2. Meets the requirements of EN 54-7:2000 at high and low sensitivity	550n/02
HM-PSE-I	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Meets the requirements of EN 54-7:2000 at high and low sensitivity	550q/01
HM-PSE-S2-I	Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (MI-B501AP) Notes: 1. Communication software protocol (19) 2. Meets the requirements of EN 54-7:2000 at high and low sensitivity	550q/02

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550r-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006 & CEA 4021:2003

Certificate No: 550s-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

LPCB Ref.
No.

HM-PTSE	Analogue Addressable Class A1R Photo-Thermal Multi-Criteria Detector (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Certified at the following settings: - Alarm levels 1 to 5 (Multi-Criteria): EN 54-5:2000 Class A1R, EN 54-7:2000 & CEA 4021:2003 - Alarm level 6 (Heat Only Mode): EN 54-5:2000 Class A1R	550r/01
HM-PTSE-I	Analogue Addressable Class A1R Photo-Thermal Multi-Criteria Detector with Short Circuit Isolators (MI-B501AP) Notes: 1. Communication software protocol (05) 2. Certified at the following settings: - Alarm levels 1 to 5 (Multi-Criteria): EN 54-5:2000 Class A1R, EN 54-7:2000 & CEA 4021:2003 - Alarm level 6 (Heat Only Mode): EN 54-5:2000 Class A1R	550s/01

Bases:

MI-B501AP Intelligent Detector Base

Certificate No: 550b to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Certificate No: 550e to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA 4021: 2003

Multi-criteria Detectors

Certificated Products

LPCB Ref.
No.

MI-PTIR-S2-yy	Analogue addressable photo-thermal-IR multi-criteria detector (B501AP, B501,	550b/04
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PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p>	550b/05
<p>MI-PTSE-S2-yy Analogue addressable photo-thermal multi-criteria detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p>	550e/01
<p>MI-PTIR-S2I-yy Analogue addressable photo-thermal-IR multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p>	550e/02
<p>MI-PTSE-S2I-yy Analogue addressable photo-thermal multi-criteria smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Certified at the following settings: - Alarm levels 1 to 5 (Multi-criteria): EN 54-5: 2000 class A1R, EN 54-7: 2000 & CEA 4021: 2003 Alarm level 6 (Heat only mode): EN 54-5: 2000 class A1R</p>	550e/02

Bases:

MI-B501 Standard analogue detector base
 B501 standard analogue detector base
 B501AP intelligent detector base
 B524IEFT-1 analogue short circuit isolator base
 B524HTR heater base
 B524RTE latching relay base

Certificate No: 550c to EN 54-5: 2000 + A1: 2002
Certificate No: 550f to EN54-5: 2000 + A1: 2002 and EN 54-17: 2005

Point Heat Detectors

Certificated Products	LPCB Ref. No.
<p>MI-RHSE-S2-yy Analogue addressable class A1R rate of rise heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White</p>	550c/06
<p>MI-FHSE-S2-yy Analogue addressable class A1S fixed temperature heat detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White</p>	550c/07
<p>MI-RHSE-S2I-yy Analogue addressable class A1R rate of rise heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White</p>	550f/01
<p>MI-FHSE-S2I-yy Analogue addressable class A1S fixed temperature heat detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Note:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White</p>	550f/02

Bases:

MI-B501 Standard analogue detector base
 B501 standard analogue detector base
 B501AP intelligent detector base
 B524IEFT-1 analogue short circuit isolator base
 B524HTR heater base
 B524RTE latching relay base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificate No: 550a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Certificate No: 550d to EN54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Point Smoke Detectors

Certificated Products

		LPCB Ref. No.
MI-PSE-S2-yy	Analogue addressable optical smoke detector (B501AP, B501, B524IEFT-1, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7: 2000 at high and low sensitivity	550a/04
MI-PSE-S2I-yy	Analogue addressable optical smoke detector with short circuit isolator (B501AP, B524HTR and B524RTE bases) <i>Notes:</i> 1) yy = Colour option ~ IV = Ivory, BK = Black, no reference indicates White 2) Meets the requirements of EN 54-7: 2000 at high and low sensitivity	550d/01

Bases:

MI-B501 standard analogue detector base
B501 standard analogue detector base
B501AP intelligent detector base
B524IEFT-1 analogue short circuit isolator base
B524HTR heater base
B524RTE latching relay base

Olympia Electronics S.A.

Kolindros Pierias, 60061, Greece

Tel: (+30) 2353051200 • Fax: (+30) 2353051486

E-mail: info@olympia-electronics.gr • Website: www.olympia-electronics.gr

Certificate No: 1010b to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
BSR-6055/A	Analogue addressable optical smoke detector (BSR-6055/A base) <i>Note:</i> 1. Meets the requirements of EN 54-7: 2000 at sensitivity setting 0.120dB/m	1010b/01
BS-655	Conventional optical smoke detector (BS-655 base)	1010b/02

Bases

BS-655 Base
BSR-6055/A Base

Certificate No: 1010d to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
BS-660	Conventional Class A2R Rate of Rise Heat Detector (BS-660)	1010d/01
BSR-6060/A	Addressable Class A2R Rate of Rise Heat Detector (BSR-6060/A)	1010d/02

Bases

BS-660
BSR-6060/A

Orient Corporation Pte. Ltd.

Block 3018, Bedok North Street 5, #05-51, Eastlink Light Industrial Building 486132, Singapore
Tel: (+65) 6242 5489 • Fax: (+65) 6241 2291
E-mail: corporate@orientcorp.net

Certificate No: 506a-(cl-5) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors
Certificated Products

OCI 60041 (2 wire) Conventional photoelectric smoke detector (OCI 60041-MPB base)

LPCB Ref.
No.
506a/02

Base

OCI 60041-MPB Mounting Base

Certificate No: 506b-(cl-3) to EN 54-7: 2000 + A1: 20002 + A2: 2006, EN 54-5: 2000 + A1: 2002 & CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors
Certificated Products

OCI 60042 (2 Wire) Optical smoke and class A2 heat detector (OCI 60041-MPB base)
Note:1. Meets the requirements of EN54-5 for class A2

LPCB Ref.
No.
506b/01

Base

OCI 60041-MPB Mounting Base

Certificate No: 506c-(cl-4) to EN 54-5: 2000 + A1: 2002

Heat Detectors
Certificated Products

OCI 60043 (2 Wire) Conventional Class A2 rate of rise and fixed temperature heat detector (OCI 60041-MPB base)
Note:1. Meets the requirements of EN54-5 for class A2

LPCB Ref.
No.
506c/01

Base

OCI 60041-MPB Mounting base

Patol Ltd

Archway House, Bath Road, Padworth, Berkshire RG7 5HR, United Kingdom
Tel: +44 (0) 118 9701 701
E-mail: info@patol.uk.com • Website: www.patol.co.uk

Certificate No: 1492a-(cl-1) to LPCB Test Schedule P107397/1.2

Certificated Products

FIBRESENSE LTS 240 SC Fibre Optic Linear Heat Detector - Single Channel
Note:

1. Approval is conditional on the following:
The use of SensorLine II, SensorTube II optical fibres (Stainless Steel) or SensorLine II Legacy

The optical fibre lengths should not exceed 4km.

The system should be installed and configured in accordance with the manufacturers instructions.

The zone/alarm configuration parameters should be set in accordance with the manufacturers instructions for an alarm response equivalent to Class A1R as specified in EN 54-5: 2000 + A1: 2002.

LPCB Ref.
No.
1492a/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

FIBRESENSE LTS 240 TC	<u>Patol Part Number</u> 100-510 4km Rack Mount 100-514 4km Cabinet Mount 100-492 2km Rack Mount 100-495 2km Cabinet Mount Fibre Optic Linear Heat Detector - Twin Channel	1492a/01
	Note: 1. Approval is conditional on the following: The use of SensorLine II, SensorTube II optical fibres (Stainless Steel) or SensorLine II Legacy The optical fibre lengths should not exceed 4km. The system should be installed and configured in accordance with the manufacturers instructions. The zone/alarm configuration parameters should be set in accordance with the manufacturers instructions for an alarm response equivalent to Class A1R as specified in EN 54-5: 2000 + A1: 2002.	
	<u>Patol Part Number</u> 100-488 4km Rack Mount 100-479 4km Cabinet Mount 100-498 2km Rack Mount 100-508 2km Cabinet Mount	

POLON-ALFA S.A.

ul. Glinki 155, Bydgoszcz 85 861, Poland
Tel: +48523639269 / +48691999933
E-mail: tomasz.piaskowski@polon-alfa.pl

Certificate No: 1283a to EN 54-12: 2002

Beam Detectors

Certificated Products

LPCB Ref.
No.
1283a/01

DOP-6001R	Conventional Optical Beam Smoke Detector (Double Pass) Notes: 1. Meets the requirements of EN 54-12 at the following sensitivity settings only: <ul style="list-style-type: none">18% obscuration high sensitivity at between 5-20m30% obscuration medium sensitivity at between 20-100m 2. Suitable for use with E39-R8 prismatic reflector over distances from 5 to 50m 3. Suitable for use with 4 x E39-R8 set of reflectors over distances from 50 to 100m
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Ancillaries

E39-R8 Single prism reflector
4 x E39-R8 Set of 4 x prism reflectors

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426b-(cl-4) to EN 54-5: 2000 + A1: 2002

Certificated Products

LPCB Ref.
No.
1426b/01

SHD 638	Addressable Heat Detector (Base DZ-912) Notes: Meets the requirements of EN 54-5 for Class A2
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Base

DZ-912

Certificate No: 1426c-(cl-4) to EN 54--7 : 2000 + A2: 2006

Certificated Products

SSD 537 Addressable Smoke detector (DZ-912 Base)
Notes:
Meets the requirements of EN 54-7 for 1 sensitivity setting

**LPCB Ref.
No.**
1426c/01

Ravel Electronics Ltd

Unit 11, Chancel Industrial Estate, Newhall Street, Willenhall WV13 1NX, United Kingdom

Tel: 0845 835 8855

E-mail: exportsales@ravelfire.co.uk

Certificate No: 512a-(cl-7) to EN54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

RE-336S Conventional 2 wire photoelectric smoke detector with remote LED output (RE-334B base)

Base:
RE-334B 4-wire detector base

**LPCB Ref.
No.**
512a/02

Certificate No: 512b-(cl-4) to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006 & CEA4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

RE-336SH Conventional 2 wire photoelectric smoke and heat detector with remote LED output (RE-334B base)

Base:
RE-334B 4-wire detector base

**LPCB Ref.
No.**
512b/02

Certificate No: 512d-(cl-7) to EN54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

RE-336H Conventional 2 wire 24VDC class A2R fixed temperature and rate-of-rise heat detector with LED output (RE-332B base)

Base:
RE-332B 2-wire detector base

**LPCB Ref.
No.**
512d/04

Certificate No: 1330a-(cl-4) to EN 54-12:2015

Certificated Products

RE 438 Conventional Reflective Beam Detector
Notes:
1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:
- Level 1: 2.6 dB High sensitivity
- Level 2: 3.8 dB Medium sensitivity
- Level 3: 5.8 dB Low sensitivity

**LPCB Ref.
No.**
1130a/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

2. Suitable for use at the following separation ranges:
- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)
 - Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)
 - Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)
 - Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

LPCB Ref.
No.

Accessories:
Mounting Bracket
RE 438-R 1 x Mirror Reflector
RE 438-R 4 x Mirror Reflector

Ravel Electronics Pvt Ltd.

150A, 1st Main Road, Electronics Industrial Estate, Perungudi, Chennai 600 096, India

Tel: 044424961004

E-mail: rajasekaran@ravelfire.com • Website: <http://ravelfire.com/>

Certificate No: 1283a-(cl-5) to EN 54-12:2002

Beam Detectors

Certificated Products

RE-428FR/HR

Conventional Optical Beam Smoke Detector (Double Pass)

Notes:

1. Meets the requirements of EN 54-12 at the following sensitivity settings only:
 - 18% obscuration high sensitivity at between 5-20m
 - 30% obscuration medium sensitivity at between 20-100m
2. Suitable for use with RE-96R prismatic reflector over distances from 5 to 50m
3. Suitable for use with 4 x RE-96R set of reflectors over distances from 50 to 100m

LPCB Ref.
No.
1283a/01

Ancillaries:

RE-96R Single prism reflector
4 x RE-96R Set of 4 x prism reflectors

Realty Automation & Security Systems Pvt Ltd.

Survey No. 11/11, Karanjakar Estate, Nanded Gaon, Pune MH- 411041, India

Tel: +91-9011033259

E-mail: sales@vighnaharta.in • Website: www.vighnaharta.in

Certificate No: 010h-(cl-4) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

MSD-700TSF

TrueSafe Multisensor Detector Addressable (BASE-210TSF)

Notes:

1. Certified at the following settings:
 - Mode 1 High sensitivity smoke detector with standard heat enhancement
 - Mode 2 Smoke detection only
 - Mode 3 Medium sensitivity smoke detector with standard heat enhancement
 - Mode 4 Low sensitivity smoke detector with high heat enhancement
 - Mode 5 Class A1 heat detector
- Also approved in conventional alarm modes 1, 2, 3, 4 and 5

LPCB Ref.
No.
010h/01

Base

BASE-210TSF TrueSafe Detector Base

Rezontech Co., Ltd.

(Gwanyang-dong), 72-9, Beolmal-ro, Dongan-gu, Anyang-si, Gyeonggi-do 14058, Republic of Korea
Tel: +82-31-348-4246~8
E-mail: sales@rezontech.com • Website: http://rezontech.co.kr/en/index.php

Certificate No: 1574a to EN 54-10:2002 + A1:2005

Flame Detectors
Certificated Products

RFD-2000X UV & IR Flame Detector
Note:
Meets EN 54-10:2002 + A1:2005 at Class 1

LPCB Ref.
No.
1574a/01

Safe Detection

33 Jurong West Street, 41#11-41, Jurong 649413, Singapore
Tel: 98797913
E-mail: sales@safedtec.com

Certificate No: 1148b-(cl-2) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors
Certificated Products

SD10 Conventional Optical Smoke Detector
(DB-6 Standard Base)
Note:
Meets the requirements of EN 54-7 in the normal sensitivity setting

LPCB Ref.
No.
1148b/01

Certificate No: 1148a-(cl-2) to EN 54-5:2000 + A1:2002

Heat Detectors
Certificated Products

HD10 Conventional Rate of Rise & Fixed Temperature Heat Detector
(DB-6 Standard Base)
Note:
Meets the requirements of EN 54-5 at Class A2R

LPCB Ref.
No.
1148a/01

Schneider Electric Fire & Security Oy

Sokerilinnantie 11C, 02600, Espoo, Finland
Tel: +358 10 446 511 • Fax: +358 10 446 5103
E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 199m to EN 54-7: 2000 + A1: 2002
Certificate No: 010q to EN 54-7:2000 + A1:2002 + A2:2006
Certificate No: 010s to EN 54-7:2000 + A1:2002 + A2:2006
Certificate No: 010t to EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003
Certificate No: 010bc-(cl-2) to EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-17:2005

Smoke Detectors
Certificated Products

EDE222-I ESMI Essentia Optical Smoke Detector (EBE200-N base)

LPCB Ref.
No.
010bc/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
EDI-10	<p><i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time</p> <p>ESMI Intellia Ionisation Smoke Detector (EBI-10 and EBI-12 bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54: Part 7 in modes 1, 2, 3, 4, 5 and in conventional mode.Certified with Apollo, Discovery, XP95 and S90 digital communication protocols that have been configured for the Discovery ionisation smoke detectors in accordance with manufacturer's instructions	010q/02
EDI-20	<p>ESMI Intellia Optical Smoke Detector (EBI-10 and EBI-12 bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode.Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/03
EDC-20	<p>ESMI Conventia Optical Smoke Detector (Approved for use with EBC-10, EBC-20 & EBC-11 bases)</p>	010s/01
EDC-30	<p>ESMI Conventia Multisensor Smoke Detector (EBC-10, EBC-11 & EBC-20 bases)</p>	010t/01
ED2351E	<p>Conventional photoelectric detector (B401, B401DG, B401R, B401SD and B401RSD bases)</p> <p>Note:</p> <ol style="list-style-type: none">Meets EN 54-7: 2000 with Low, Medium and High sensitivities	199m/03

Bases:

B401 standard base
B401DG deep base
B401R standard base with 470 ohm resistor
B401SD standard base with schottky diode
B401RSD standard base with 470 ohm resistor and schottky diode
B501 Analogue sensor base
B501DG Analogue sensor deep base
B524IEFT Analogue sensor isolator base
B524HTR Heater base
B524RTE Latching relay base
EBI-10 ESMI Intellia Mounting Base
EBI-20 ESMI Intellia Mounting Base
EBC-10 ESMI Conventia TimeSaver Base
EBC-11 ESMI Conventia Time Saver Deep Base
EBC-20 ESMI Conventia Relay Base
EBE200-N ESMI Essentia Xpert 8 Mounting Base

Certificate No: 199n to EN 54-5: 2000 + A1: 2002

Certificate No: 010p to EN 54-5:2000 + A1:2002

Certificate No: 010r to EN 54-5:2000 + A1:2002

Certificate No: 010bd-(cl-2) to EN 54-5:2000 + A1:2002 & EN 54-17:2005

Heat Detectors

Certificated Products		LPCB Ref. No.
EDE221-I	<p>ESMI Essentia Heat Detector (EBE200-N base)</p> <p>Note:</p> <ol style="list-style-type: none">Meets requirements of EN 54-5:2000 + A1:2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01
EDI-50	<p>ESMI Intellia Heat Detector (EBI-10 and EBI-12 bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN54: Part 5 at the following modes: Class A1R in mode 1 and in conventional mode Class A2 in mode 2 and in conventional mode Class A2S in mode 3 and in conventional mode	010p/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>Class CR in mode 4 and in conventional mode Class CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturer's instructions.</p>	
EDC-20/A1R ESMI Conventia Class A1R Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note:	010r/01
EDC-50/A2S ESMI Conventia Class A2S Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note:	010r/02
EDC-50/BR ESMI Conventia Class BR Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note:	010r/03
EDC-50/BS ESMI Conventia Class BS Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note:	010r/04
EDC-50/CR ESMI Conventia Class CR Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note:	010r/05
EDC-50/A1S ESMI Conventia Class A1S Heat Detector (EBC-10, EBC-11 & EBC-20 bases) Note:	010r/07
ED5351E Class A1R conventional rate of rise heat detector (B401, B401DG, B401R and B401RSD bases)	199n/07
ED4351E Class BS conventional heat detector (B401, B401DG, B401R, B401SD and B401RSD bases)	199n/08
ED5351TE Class A2S conventional fixed temperature heat detector (B401, B401R, B401RSD, B401SD and B401DG bases)	199n/14

Bases:

B401 standard base
 B401DG deep base
 B401R standard base with 470 ohm resistor
 B401SD standard base with schottky diode
 B401RSD standard base with 470 ohm resistor and schottky diode
 B501 analogue sensor base
 B501AP intelligent detector base
 B501DG analogue sensor deep base
 B524IEFT analogue sensor isolator base
 B524IEFT-1 analogue short circuit isolator base
 B524HTR heater base
 B524RTE latching relay base
 EBI-10 ESMI Intellia Mounting Base
 EBI-12 ESMI Intellia Mounting Base
 EBC-10 ESMI Conventia TimeSaver Base
 EBC-11 ESMI Conventia TimeSaver Deep Base
 EBC-20 ESMI Conventia Relay Base
 EBE200-N ESMI Essentia Xpert 8 Mounting Base

Certificate No: 199p to EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 & CEA 4021: 2003

Certificate No: 199t to LPS 1279 - 1.0: 2006, EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 & CEA 4021: 2003

Certificate No: 010aq-(cl-2) to LPS 1274: 2005 EN 54-5: 2000 + A1: 2002 LPS 1265: 2004

Certificate No: 010h to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-5:2000 + A1:2002, CEA 4021:2003

Certificate No: 010bb-(cl-2) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005 & CEA 4021:2003

Multi Criteria Detectors

Certificated Products	LPCB Ref. No.
<p>EDE223-I ESMI Essentia Smoke/Heat Detector with Multi-Criteria Detector (EBE200-N base) <i>Certified at the following settings:</i></p>	010bb/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
EDI-30	Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector ESMI Intellia Multisensor Smoke Detector (EBI-10 and EBI-12 bases) Note: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.	010h/01
ED2351TEM	Conventional optical/thermal smoke & heat detector (B401, B401DG, B401R, B401SD and B401RSD bases) Note: 1. Meets the requirements of EN 54-5: 2000 at class A1R and EN 54-7: 2000 at High, Medium and Low.	199p/03
ESMI2251CTLE	Analogue addressable multi-criteria fire detector and incorporating CO, photoelectric, thermal and IR sensors (B501, B501AP, B501DG and B524IEFT-1 bases) Note: Certified at the following settings: - Normal Mode: Alarm Levels 1 to 5 (Multi-criteria) EN54-5 Class A1R, EN54-7, LPS1279 and CEA 4021 Alarm Level 6 (Heat Only Mode): EN54-5 Class A1R Nuisance Environment Applications: Application 0, Alarm Level 4 EN54-7, LPS1279 & CEA 4021 Application 1, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 2, Alarm Level 4 or 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 3, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 4, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021 Application 5, Alarm Level 5 EN54-7 & CEA 4021 Application 6, Alarm Level 5 EN54-5 Class A1R, EN54-7 & CEA 4021	199t/01
Bases: B401 standard base B401DG deep base B401R standard base with 470 ohm resistor B401SD standard base with schottky diode B401RSD standard base with 470 ohm resistor and schottky diode B501 standard analogue detector base B501AP intelligent detector base B501DG Deep detector base B524IEFT Short circuit isolator base B524HTR Heater base B524RTE Latching relay base EBI-10 Standard Intelligent Mounting Base EBI-12 ESMI Intellia Mounting Base EBE200-N ESMI Essentia Xpert 8 Mounting Base		

Shenzhen Fanhai Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 518054, China

Tel: +86 755 26521071

E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426c-(cl-2) to EN 54-7 :2000 + A1: 2002 + A2; 2006

Certificated Products		LPCB Ref. No.
A9030T	Addressable Smoke Detector	1426c/01

Certificated Products

LPCB Ref. No.

*Notes:
Meets the requirements of EN 54-7 for 1 sensitivity setting*

Base
DZ-912

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1426b-(cl-2_ to EN 54-5:2000 + A1:2002

Certificated Products

LPCB Ref. No.

A9020T Addressable Heat Detector
Meets the requirements of EN 54-5 for Class A2

1426b/01

Shenzhen Heiman Technology Co Ltd

No 84 Fuqian Road, Yuexingwei Community, Guanlan, Longhua New District, Shenzhen 518110, China
*Tel: +86 75584193930 x8018 • Fax:
E-mail: office@heiman.com.cn*

Certificate No: 1138a to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

LPCB Ref. No.

HM-612PC-4	Conventional 4-WIRE photoelectric smoke detector with relay output (B-01 base)	1138a/01
HM-612PC-2	Conventional 2-WIRE photoelectric smoke detector with remote LED (B-01 base)	1138a/02
HM-613PC-4	Conventional 4-WIRE photoelectric smoke detector with relay output (B-01 base)	1138a/03
HM-613PC-2	Conventional 2-WIRE photoelectric smoke detector with remote LED (B-01 base)	1138a/04

Base

B-01 Standard base

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom
*Tel: +44 1708 377731 • Fax: +44 1708 347637
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com*

Certificate No: 010q-(cl-5) to EN 54-7: 2000 + A1: 2002 + A2: 2006
Certificate No: 010bc-(cl-3) to EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-17:2005
Certificate No: 928k-(cl-12) to EN 54-7: 2000 + A1: 2002 + A2: 2006 & EN 54-25: 2008

Smoke Detectors

Certificated Products

LPCB Ref. No.

TEN-A8011	Photo-Electric Smoke Detector with Isolator (TEN-A8030 base)	010bc/01
	<i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with fast response time Mode 2: High sensitivity smoke detector with standard response time Mode 3: Standard smoke sensitivity with fast response time Mode 4: Standard smoke sensitivity with standard response time Mode 5: Medium-Low sensitivity smoke detector with fast response time	
SIL-A8021	SIL Optical Detector (SEN-A4001 mounting base)	010q/03
	<i>Notes:</i> 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. 2. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with	

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
SEN-C2013	manufacturer's instructions. Conventional Ionisation Smoke Detector - Flashing LED (SEN-C2001 mounting base)	010q/05
SEN-C2011	Conventional Optical Detector - Flashing LED (SEN-C2001 mounting base)	010q/11
SEN-C2012	Conventional Optical Smoke Detectormounting base)	010q/12
SEN-A4012	Analogue Addressable Ionisation Smoke Detector (SEN-A4001 mounting base)Certified with Communication protocol in accordance with manufacturers instructions.	010q/16
SEN-A4011	Analogue Addressable Optical Smoke Detector mounting base) Certified with Communication protocol in accordance with manufacturers instructions.	010q/18
SIL-A8011	SIL I.S. Optical Detector (SIL-A8058 base) Note: Certified with Apollo Series 90 and XP95 digital communications protocol.	010q/22
SW-3210	Wireless Addressable Optical Smoke Detector Notes: 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases:

SEN-C2001	Conventional mounting base
SEN-A4001	Addressable mounting base
TEN-A8030	Standard Mounting Base
WAB100	Wireless Adaptor Base

Certificate No: 010m-(cl-2) to EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003

Certificate No: 010bb-(cl-3) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005 & CEA 4021:2003

Certificate No: 010h-(cl-3) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006 & CEA 4021:2003

Certificate No: 928m-(cl-12) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
TEN-A8013	Multisensor Detector with Isolator (TEN-A8030 base) <i>Certified at the following settings:</i> Mode 1: High sensitivity smoke detector with high heat enhancement Mode 2: Standard smoke sensitivity only Mode 3: Medium sensitivity smoke detector with medium heat enhancement Mode 4: Low sensitivity smoke detector with high heat enhancement Mode 5: Class A1R heat detector	010bb/01
SIL-A8023	SIL Multisensor Detector (SEN-A4001 mounting base) Notes: 1. Certified at the following settings: Mode 1 – High sensitivity smoke detector with standard heat enhancement Mode 2 – Smoke detection only Mode 3 – Medium sensitivity smoke detector with standard heat enhancement Mode 4 – Low sensitivity smoke detector with high heat enhancement Mode 5 – Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010h/01
SEN-A4015	Analogue Addressable Multisensor Detector (SEN-A4001 mounting base) Certified with digital communication protocol that has been configured for the multisensor detector in accordance with manufacturers instructions.	010m/01
SW-3220	Wireless Addressable Multicriteria Detector Notes: 1. Meets the requirements of EN 54-5 for Class A1R 2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal	928m/02

Certificated Products

**LPCB Ref.
No.**

Level 3 - Low
3. The device must be used with the following battery type only:
CR123A (3 Vdc) - Primary and Secondary Battery

Bases:

SEN-A4001 Addressable mounting base
TEN-A8030 Standard Mounting Base
WAB100 Wireless Adaptor Base

Certificate No: 010p-(cl-5) to EN 54-5: 2000 + A1: 2002
Certificate No: 010bd-(cl-3) to EN 54-5:2000 + A1:2002 & EN 54-17:2005
Certificate No: 928j-(cl-12) to EN 54-5: 2000 + A1: 2002 and EN 54-25: 2008

Heat Detectors

Certificated Products

**LPCB Ref.
No.**

TEN-A8012	Heat Detector with Isolator (TEN-A8030 base) Note: 1. Meets requirements of EN 54-5:2000 + A1:2002 for classes A1R, A2R, A2S, CR, CS, BR and BS.	010bd/01
SIL-A8022	SIL Heat Detector (SEN-A4001 mounting base) Notes: 1. Meets the requirements of EN54: Part 5 at the following modes: <ul style="list-style-type: none"> • Class A1R in mode 1 and in conventional mode • Class A2 in mode 2 and in conventional mode • Class A2S in mode 3 and in conventional mode • Class CR in mode 4 and in conventional mode • Class CS in mode 5 and in conventional mode 2. Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturer's instructions.	010p/03
SEN-C2020	Conventional Class CS Heat Detector Flashing LED (SEN-C2001 mounting base) Note: Meets the requirements of EN54: Part 5 - Class CS	010p/14
SEN-A4013	Analogue Addressable Class A2S Heat Detector mounting base) Note: Meets the requirements of Class A2S	010p/20
SEN-A4014	Analogue Addressable Class CS Heat Detector mounting base)Note: Meets the requirements of Class CS.	010p/21
SIL-A8012	SIL I.S. Heat Detector (SIL-A8058 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class A2S. 2. Certified with Apollo Series 90 and XP95 digital communications protocols.	010p/23
SW-3230	Wireless Addressable Class P Heat Detector Notes: 1. Meets the requirements of EN 54-5 for Class A1R and BS 2. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928j/02

Bases:

SEN-C2001 Conventional mounting base
SEN-A4001 Addressable mounting base
TEN-A8030 Standard Mounting Base
SIL-A8058 Intrinsically Safe Mounting Base
WAB100 Wireless Adaptor Base

Certificate No: 1204b-(cl-1) to EN 54-10: 2002 + A1: 2005

Flame Detectors

Certificated Products

**LPCB Ref.
No.**

SEN-C2030	S65 Conventional UV Flame Detector (with base SEN-C2001) Note: Meets EN 54-10:2002 at Class 1 and Class 3	1204b/04
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SEN-C2001 Standard base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

SHIELD FIRE, SAFETY AND SECURITY LTD

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

Tel: +44 207 712 1610 • Fax: +44 207 712 1578

E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Beam Detectors

Certificate No: 548d-(cl-4) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

D-C401 Conventional photoelectric smoke detector (DZ-03 base)
D-A411 Intelligent photoelectric smoke detector (DZ-03 base)

LPCB Ref.
No.
548d/01
548d/02

Bases:

DZ-03 Standard detector base

Certificate No: 548c-(cl-4) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

D-C402 Conventional Class A1R heat detector (DZ-03 base)
D-A412 Intelligent Class A1R heat detector (DZ-03 base)

LPCB Ref.
No.
548c/01
548c/02

Bases:

DZ-03 Standard detector base

Certificate No: 548q-(cl-1) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Certificated Products

D-C400 Conventional Optical Smoke and Heat Multisensor Detector
(DB-CA Base, DZ-03D Base & DZ-03 Base)
Notes:
1. Meets the requirements of EN 54-7: 2000 at sensitivity setting Mode 1
2. Meets the requirements of EN 54-5: 2000 at Class A2R
D-A410 Intelligent Optical Smoke and Heat Multisensor Detector
(DZ-03 Base)
Notes:
1. Meets the requirements of EN 54-7:2000 at sensitivity setting Mode 1
2. Meets the requirements of EN 54-5: 2000 at Class A2R

LPCB Ref.
No.
548q/01

548q/02

Bases

DB-CA Active EOL Unit
DZ-03D Diode Base
DZ-03 Standard Base

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland

Website: www.siemens.com

Certificate No: 126bb to EN 54-10:2002 + A1:2005

Certificate No: 126bc to EN 54-10:2002 + A1:2005, EN 54-17:2005

Certificated Products

DF1101-Ex Conventional I.S. Infra-Red Flame Detector (DFB1190 Base)

LPCB Ref.
No.
126bb/01

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products

LPCB Ref. No.

FDF241-9	<p>Note: Certified to EN54-10:2002 + A1:2005 at Class 1 and 2 Analogue Addressable Infra-Red Flame Detector with Short Circuit Isolator (FDFB291 base) Note: Certified to EN54-10:2002 + A1:2005 at Class 1 and 2</p>	126bc/05
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Base:
DFB1190 Base
FDFB291 Base

Certificate No: 126bd to EN 54-12:2015, EN 54-17:2005

Certificated Products

LPCB Ref. No.

FDL241-9	<p>Analogue Addressable Beam Detector with Short Circuit Isolator (FDLB291 base) Note: Certified at sensitivity settings 30%, 50% and 65%</p>	126bd/02
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Bases:
FDLB291 Base

**Certificate No: 126bf to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-7:2000 + A1:2002 + A2:2006
EN 54-17:2005**

Certificate No: 531e-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

LPCB Ref. No.

FDO221	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FDB221, FDB201, FDB291 and FDB292 bases)	126bf/01
FDO241	Analogue Addressable Photoelectric Smoke Detector with Short Circuit Isolator (FDB221, FDB201, FDB291 and FDB292 bases)	126bf/02
OP720	<p>Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB222 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivities: - Standard 2.5%/m - Sensitive 1.8%/m</p>	531e/01

OP360	<p>Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-7 in the following sensitivity: • Standard 2.5%/m</p>	531e/04
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Bases:

FDB221	Base
FDB201	Base "Collective"
FDB291	Base attachment surface
FDB292	Base attachment surface wet
DB720	Detector base
DB721	Detector base with loop contact
DB722	Detector Base
BA720	Base Adaptor
BA721	Base Adaptor

Certificate No: 531w-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-29:2015

Certificate No: 126bv to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-29:2015

Certificated Products

LPCB Ref. No.

FDOOT241-A5	<p>Addressable Optical Smoke and Heat Multi-Sensor Detector with Short Circuit Isolator (DB1151A, FDB251, FDB295, FDB221, FDB222, FDB291 and FDB293 Bases) Notes: 1. The following modes are approved when used with Sinteso FDnet protocol: EN 54-29 and EN 54-7 Settings:</p>	126bv/01
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PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

Mode 0 - Neural Fire Detector		
Parameter		No
Robust		2
Balanced	4	
Suppression		5
Fast Response		6
High Compensation	7	
High Sensitive Fast	9	
Super Sensitive		11

EN 54-5 Settings:

Mode 1 - Heat Detector		
Parameter		No
A1R		1
BR		2
A1S		3
BS		4

EN 54-7 Settings:

Mode 2 - Smoke Detector		
Parameter		No
Universal	1	
Robust	2	
Sensitive	3	
Super Sensitive		5

2. The following modes are approved when used with the AlgoRex Interactive protocol:

EN 54-29 and EN 54-7 Settings:

Mode 0 - Neural Fire Detector		
Parameter		No
Balanced	4	
Suppression		5
Fast Response		6
High Sensitive Fast	9	
Super Sensitive		11

EN 54-5 Settings:

Mode 1 - Heat Detector		
Parameter		No
A1R		1
BR		2
A1S		3
BS		4

EN 54-7 Settings:

Mode 2 - Smoke Detector		
Parameter		No
Universal	1	
Sensitive	3	
Super Sensitive		5

3. Refer to manufacturers documentation A6V10323158 when making changes to interactive protocol and replacing the following detectors.

DOT1151A, DOT1152A replaced by FDOOT241-A5

EN 54-29 and EN 54-7 Settings:

Mode 0 - Neural Fire Detector - Multisensor Detector			
<u>Parameter</u>		<u>No</u>	<u>legacy setting</u>
Balanced	4		APS005S, APS006S, APS015S, APS019S, APS009S, APS082S
Suppression		5	APS084S
Fast Response		6	APS007S, APS085S
High Sensitive Fast	9		APS081S
Super Sensitive		11	APS080S

DT1152A replaced by FDOOT241-A5

EN 54-5 Settings:

Mode 1 - Heat Detector		
<u>Parameter</u>	<u>No</u>	<u>legacy setting</u>
A1R	1	APS100T
BR	2	APS105T

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products

LPCB Ref. No.

A1S 3 APS103T
BS 4 APS107T

Smoke detector DO1151A, DO1152A replaced by FDOOT241-A5

EN 54-5 Settings:

Mode 2 - Smoke detector

<u>Parameter</u>	<u>No</u>	<u>legacy setting</u>
Universal	1	APS005S
Sensitive 3	APS006S	
Super Sensitive	5	APS007S, APS009S

Smoke detector DO1153A replaced by FDOOT241-A5

EN 54-7 Settings:

Mode 2 - Smoke detector

<u>Parameter</u>	<u>No</u>	<u>legacy setting</u>
Super Sensitive	5	APS073SH

FDOOT241-A3

Multisensor Detector with Short Circuit Isolator
(FDB221, FDB222, DB1131A, FDB291, FDB293, FDB295 and FDB241 bases)

126bv/02

Note - the following modes are approved

1 - Parameter sets for detection when connected to FDnet communication Protocol

EN 54-29 and EN 54-7 Settings:

Mode 0 - "Neural Fire Detector-Multisensor Detector":

<u>Parameter</u>	<u>No</u>
Robust 2	
Balanced 4	
Suppression 5	
Fast Response 6	
High Compensation 7	
High Sensitive Fast 9	
Super Sensitive 11	

EN 54-5 Settings:

Mode 1 - "Heat Detector"

<u>Parameter</u>	<u>No</u>
A1R 1	
BR 2	
A1S 3	
BS 4	

EN 54-7 Settings:

Mode 2 - "Smoke Detector"

<u>Parameter</u>	<u>No</u>
Universal 1	
Robust 2	
Sensitive 3	
Super Sensitive 5	

2 - Parameter sets for detection when connected to AnalogPLUS communication protocol

Smoke only as DO1131A

<u>Parameter</u>	<u>No</u>
Sensitive 3	
Universal Fast 4	

Smoke with heat enhancement as DOT1131A

<u>Parameter</u>	<u>No</u>
Fast Response 6	
Universal Fast 12	

Rate of Rise heat detection as DT1131A

<u>Parameter</u>	<u>No</u>
A1R 1	

Fixed temperature heat detection as DT1132A

<u>Parameter</u>	<u>No</u>
BS 4	

FDOOT241-A9

Multisensor Detector with Short Circuit Isolator
(FDB221, FDB222, FDB201, FDB202, FDB299, FDB291, FDB293, FDB295, DB1101A)

126bv/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

and SPF600 bases)

Note: - the following modes are approved

1 - Parameter sets for detection when connected to FDnet communication protocol and collective detector line

EN 54-29 and EN 54-7 Settings:

Mode 0 - "Neural Fire Detector-Multisensor Detector":

<u>Parameter</u>	<u>No</u>
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9
Super Sensitive	11

EN 54-5 Settings:

Mode 1 - "Heat Detector":

<u>Parameter</u>	<u>No</u>
A1R	1
BR	2
A1S	3
BS	4

EN 54-7 Settings:

Mode 2 - "Smoke Detector":

<u>Parameter</u>	<u>No</u>
Universal	1
Robust	2
Sensitive	3
Super Sensitive	5

OOH740

Analogue Addressable Multisensor Detector with Short Circuit Isolator (DB720, DB721, DB722, BA720, BA721, DB721D & DB110 bases)

126bv/04

Note: - the following modes are approved

1 - Parameter sets for detection when connected to C-Net detector line

EN 54-29 and EN-54-7 Settings:

Mode 0 - "Neural Fire Detector"

<u>Parameter</u>	<u>No</u>
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9

EN 54-5 Settings:

Mode 1 - "Heat Detector"

<u>Parameter</u>	<u>No</u>
A1R	1
BR	2
A1S	3
BS	4

EN 54-7 Settings:

Mode 2 - "Smoke Detector"

<u>Parameter</u>	<u>No</u>
Universal	1
Robust	2
Sensitive	3
Super Sensitive	5

2 - Parameter sets for detection when connected to collective detector line

<u>Parameter</u>	<u>Resistor value in detector base</u>
Standard Plus	-
Suppression	33 K
High Sensitive Fast	68 K

FDOOT241-A

Multi Sensor Detector with Short Circuit Isolator (FDB221, FDB222, FDB291, FDB293, FDB295 bases)

126bv/05

Note: - the following modes are approved

Certificated Products

LPCB Ref. No.

1 - Parameter sets for detection when connected to FDnet communication protocol and collective detector line

EN 54-29 and EN 54-7 Settings:

Mode 0 - "Multisensor Detector":

<u>Parameter</u>	<u>No</u>
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9

EN 54-5 Settings:

Mode 1 - "Heat Detector":

<u>Parameter</u>	<u>No</u>
A1R	1
BR	2
A1S	3
BS	4

EN 54-7 Settings

Mode 2 - "Smoke Detector":

<u>Parameter</u>	<u>No</u>
Universal	1
Robust	2
Sensitive	3
Super Sensitive	5

OH720

Addressable Multi Sensor Smoke Detector with Short Circuit Isolator (DB721, DB722, BA720 and BA721 bases)

531w/01

Note:

1) Meets the requirements of EN 54-7 and EN 54-29 in the following sensitivities:

- 1 - Robust 3.5%/m
- 2 - Sensitive 2.5%/m

FDB221 Addressable Detector Base
 FDB222 Addressable Flat Detector Base
 DB1151A Base for Sinteso & AlgoRex systems
 DB1131A Base for Analog Plus Fire Detectors
 FDB251 Base Adaptor for Sinteso & AlgoRex systems
 FDB295 Base Attachment Wet
 FDB291 Base Attachment for Surface Mount Cable Entry
 FDB293 Base Adaptor Humid
 FDB241 Base Adaptor for Migration Detectors
 FDB201 Detector Base Collective
 FDB202 Detector Base Collective, Flat
 FDB299 Base Adaptor for Migration Detectors
 DB1101A Base for Collective Fire Detectors
 SPF600 Detector Base for Sigmasys
 DB721 Detector Base with Loop Contact
 DB722 Detector Base
 BA720 Base Attachment
 BA721 Base Attachment Wet

Certificate No: 126bh to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, CEA 4021:2003

Certificate No: 126bw to EN54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-29:2015

Certificated Products

LPCB Ref. No.

FDOOT241-9

Analogue Addressable Multisensor Detector with Short Circuit Isolator (FDB201, FDB202, FDB221, FDB222, FDB291 and FDB293 bases)

126bh/01

Note:

1. Meets the requirements of EN 54-5: 2000 at Class A2R & A2S and EN 54-7: 2000 at sensitivity settings:

- Parameter No. 1 Universal
- Parameter No. 2 Robust with thermal enhancement
- Parameter No. 3 Sensitive

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

FDOOTC241
Parameter No. 4 Balanced with thermal enhancement
Parameter No. 5 Suppression with thermal enhancement
Parameter No. 6 Response with thermal enhancement
Parameter No. 7 Robust / BGD with thermal enhancement
Analogue Addressable Multisensor Detector with Short Circuit Isolator
(FDB221, FDB222, FDSB291 & FDSB293 bases)

126bh/04

Note - the following modes are approved:

Mode 0 - Neural Fire Detector:

0.0 High Compensation
0.2 Robust
0.4 Balanced
0.5 Suppression
0.6 Fast Response
0.7 High Compensation
0.9 High Sensitive Fast
0.10 Balanced CO
0.12 Suppression CO

Mode 1 - Heat Detector

1.1 A1R
1.2 BR
1.3 A1S
1.4 BS

Mode 2 - Smoke Detector

2.0 Universal
2.1 Universal
2.2 Robust
2.3 Sensitive

OOHC740
Analogue Addressable Multisensor Detector with Short Circuit Isolator
(DB720, DB721, DB722 & BA720 bases)

126bh/06

Note: - the following modes are approved

1 - Parameter sets for detection when connected to C-Net detector line

Mode 0 - "Neural Fire Detector"

<u>Parameter</u>	<u>No</u>
Robust	2
Balanced	4
Suppression	5
Fast Response	6
High Compensation	7
High Sensitive Fast	9

Mode 1 - "Heat Detector"

<u>Parameter</u>	<u>No</u>
A1R	1
BR	2
A1S	3
BS	4

Mode 2 - "Smoke Detector"

<u>Parameter</u>	<u>No</u>
Universal	1
Robust	2
Sensitive	3

FDOOT221
Analogue Addressable Multisensor Detector with Short Circuit Isolator
(FDB221, FDB222, FDB293, FDB291, FDB295 bases)

126bw/01

EN 54-29 and EN 54-7 Settings:

Note: The following sensitivity settings are approved:

Parameter No. 2 Standard
Parameter No. 4 Standard Plus

Bases

FDB201 Base "Collective" with stand offs
FDB202 Base "Collective" without stand offs
FDB221 Base with stand offs
FDB222 Base without stand offs
FDB291 Base Attachment for Surface Mount Cable Entry
FDB293 Base Adaptor Humid

FDB295	Base Attachment Wet
FDB299	Base
DB1101A	Base
SPF600	Base
DB1131A	Standard base
FDB241	Standard base for special location
DB720	Detector base
DB721	Detector base with loop contract
DB722	Detector base with loop contract
DB721D	Detector base with snap lock
BA720	Base with surface mounted line
FDB251	Base adapter
FDB295	Base attachment
DB1151A	Base
DB110	Base

Certificate No: 126bj to EN 54-5:2000 + A1:2002, EN 54-17:2005
Certificate No: 531f-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-17:2005

Certificated Products	LPCB Ref. No.
FDT221 Analogue Addressable Rate of Rise Heat Detector with Short Circuit Isolator (FDB221, FDB201, FDB291 and FDB292 bases) Note: Meets EN 54-5: 2000 at Class A1R and BR	126bj/01
FDT241 Analogue Addressable Rate of Rise Heat Detector with Short Circuit Isolator (FDB221, FDB201, FDB291 and FDB292 bases) Note: Meets EN 54-5: 2000 at Class A1R, A1S, BR and BS	126bj/02
HI720 Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Notes: Meets the requirements of EN 54-5 at classes A2S and A2R	531f/01
HI722 Analogue Addressable Class A2S Heat Detector with Short Circuit Isolator (DB720, DB721, DB722 bases, BA720, BA721 base adaptor) Notes: Meets the requirements of EN 54-5 at class A2S	531f/02
HI360 Analogue Addressable Class A2S and A2R Heat Detector with Short Circuit Isolator (DB721, DB722, DB720 bases, BA720, BA721 base adaptor) Note: 1. Meets the requirements of EN 54-5 at classes A2S and A2R	531f/05
Bases	
FDB221	Base
FDB201	Base "Collective"
FDB291	Base attachment surface
FDB292	Base attachment surface wet
DB720	Detector base
DB721	Detector base with loop contact
DB722	Detector base
BA720	Base adaptor
BA721	Base adaptor

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Unit 1-2, Building 53B, Pensnett Trading Estate, Kingswinford, West Midlands DY6 7XQ, United Kingdom

Tel: +44 (0)1384 671611

E-mail: info@silver-tec.co.uk • Website: www.silver-tec.co.uk

Certificate No: 358c-(cl-2) to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products	LPCB Ref. No.
ST-ASD-W Intelligent Analogue Addressable Optical Smoke Detector (White) (ST-ABI-I, ST-ABI-SC, ST-ABS-I and ST-ABSF-WWL bases) Note:	358c/07

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

1. Meets the requirements of EN 54-7 in low and high sensitivity settings.

LPCB Ref.
No.

Bases:

ST-ABI-I	Mounting base
ST-ABI-SC	Short circuit isolator base
ST-ABS-I	Base sounder
ST-ABSF-WWL	Base sounder beacon (White LED)

Certificate No: 117f-(cl-1) to EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002 + A2:2006 CEA 4021:2003

Bases:

ST-ABI-I	Mounting base
ST-ABI-SC	Short circuit isolator base
ST-ABS-I	Base sounder
ST-ABSF-WWL	Base sounder beacon (White LED)

Certificate No: 117g-(cl-2) to EN 54-5:2000 + A1:2002

Certificated Products

ST-AHDW-W	Weather Proof Intelligent Analogue Addressable Class P Heat Detector (ST-ABI-I base) Note: Classes A1R, A1S, BR, BS, CR and CS when used with ACB-E protocol and classes A1S, BS and CS when used with ATG-E protocol.
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LPCB Ref.
No.
117g/10

Bases:

ST-ABI-I	Mounting base
ST-ABI-SC	Short circuit isolator base
ST-ABS-I	Base sounder
ST-ABSF-WWL	Base sounder beacon (White LED)

Certificate No: 117k-(cl-1) to EN 54-10:2002 + A1:2005

Certificated Products

ST-CFD-W	Conventional Class 1 IR Flame Detector (ST-CBI-base)
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LPCB Ref.
No.
117k/01

Base:

ST-CBI-I Conventional Standard Base

SMS (Novar Systems Ltd)

Hamilton Industrial Park, 140 Waterside Road, Leicester LE5 1TN, United Kingdom

Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016

Website: www.smsfire.co.uk

Certificate No: 042ak to EN 54-5: 2000 + A1: 20002, EN 54-3: 2001 + A1: 2002, CEA GEI 1-084: Draft 08.08.00, CEA GEI 1-052: 11.06.97 Draft 2.0,

Point Heat Detectors

Certificated Products

SEN-780	S-Quad Analogue Addressable Class P Heat Detector with Sounder with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit)
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LPCB Ref.
No.
042ak/01

Notes:

1. Meets the requirement of EN 54-5 at the following settings:
 - State 0 - Class A1 heat
 - State 5 - Class B heat

Certificated Products

LPCB Ref.
No.

- State 6 - Class BS heat
- State 7 - Class A2S heat
- State 13 - Class A2 heat
- 2. Meets the requirements of EN 54: Part 3 at the following sounder tone settings:
High - Continuous 933 Hz
Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs

Bases:

S4-700 standard base
S4-FLUSH semi-flush fixing kit

Certificate No: 042an to EN 54-7: 2000 + A1: 2002, EN 54-5: 2000 + A1: 2002, EN 54-3: 2001 + A1: 2002, EN 54-17: 2005, EN 54-18: 2005 and CEA 4021: 2003,

Certificate No: 042bf to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005

Certificate No: 567ac-(cl-1) to EN54-3: 2001 + A1: 2002 + A2: 2006, EN54-5: 2000 + A1: 2002, EN54-17: 2005, EN54-18: 2005, EN54-23: 2010

Certificate No: 567j-(cl-1) to EN54-3: 2001 + A1: 2002 + A2: 2006, EN54-5: 2000 + A1 :2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005,

Certificate No: 567ab-(cl-1) to EN54-3: 2001 + A1: 2002 + A2: 2006, EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005, EN 54-23: 2010,

Certificate No: 567aa-(cl-1) to EN54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005,

Multi Criteria Detectors

Certificated Products

LPCB Ref.
No.

SEN-770	S-Quad analogue addressable optical smoke and Class A1 heat multisensor detector with sounder (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Notes: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings: State 0 - Medium optical / Class A1 heat 2. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs	042an/04
SEN-770-ST	S-Quad analogue addressable optical smoke and Class A1 heat multisensor detector with sounder and strobe (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Notes: 1. Meets the requirement of EN 54- 5 and EN 54-7 at the following settings: State 0 - Medium optical / Class A1 heat 2. Meets the requirements of EN 54: Part 3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 3. Strobe not included in scope of approval.	042an/06
SEN-710	S-Quad Analogue Addressable Optical Smoke and Class A1 Heat Multi-Sensor Detector (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note: 1. Meets the requirement of EN 54-5 and EN 54-7 at the following settings except where otherwise stated: State 0 - Medium optical / Class A1 heat State 2 - Low sensitivity / Class A1 heat* State 3 - High sensitivity / Class A1 heat State 4 - Medium optical (no spoke) / Class A1 heat State 5 - Medium optical / Class B heat State 6 - Low sensitivity / Class BS heat* State 7 - Medium optical / Class A2S heat State 8 - Delayed medium optical / Class A1 heat State 11 - Low sensitivity / Class B heat* State 12 - Off / Class A1 heat* *Does not meet the requirement of EN 54-7	042bf/01
SEN-780-S	Analogue Addressable Class P Heat Sensor with Sounder with Short Circuit Isolator (S4-700 Standard base) Notes:1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 2. Meets the requirements of EN 54-5 at the following settings: - State 0 - Class A1 heat - State 5 - Class B heat - State 6 - Class BS heat	567aa/01

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref. No.

SEN-770-VAD-HPR	<ul style="list-style-type: none">- State 7 - Class A2S heat- State 13 - Class A2 heat Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder and Red Visual Alarm (S4-701 Base) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ul style="list-style-type: none">- High- Continuous 933 Hz- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:<ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat- State 11 - Low sensitivity / Class B heat*- State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p>	567ab/01
SEN-770-VAD-HPW	3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): <ul style="list-style-type: none">- High power setting - (Category C: C-3-14 and Category O: O-4.5-14)- Medium power setting - (Category C: C-3-13 and Category O: O-4-13)- Low power setting - (Category C: C-3-10)- Synchronization- Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder and White Visual Alarm (S4-701 Base) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ul style="list-style-type: none">- High- Continuous 933 Hz- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:<ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat- State 11 - Low sensitivity / Class B heat*- State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p>	567ab/02
SEN-770-VAD-LPW	3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details): <ul style="list-style-type: none">- High power setting - (Category C: C-6-16)- Medium power setting - (Category C: C-3-14 and Category O: O-5-14)- Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8)- Synchronization- Flash rate 2 seconds (0.5Hz) 4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder and White Visual Alarm (S4-701 Base) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ul style="list-style-type: none">- High- Continuous 933 Hz- Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:<ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat	567ab/03

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Certificated Products	LPCB Ref. No.
<ul style="list-style-type: none"> - State 11 - Low sensitivity / Class B heat* - State 12 - Off / Class A1 heat* <p><i>*Does not meet the requirements of EN 54-7</i></p> <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):</p> <ul style="list-style-type: none"> - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p> <p>Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder and Red Visual Alarm (S4-701 Base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following sounder tone settings:</p> <ul style="list-style-type: none"> - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs <p>2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings:</p> <ul style="list-style-type: none"> - State 0 - Medium Optical / Class A1 Heat - State 5 - Medium Optical / Class B Heat - State 8 - Delayed Medium Optical / Class A1 Heat <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):</p> <ul style="list-style-type: none"> - Low power setting - (Category C: C-3-10) - Synchronization - Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	567ab/09
<p>SEN-780-VAD-HPR</p> <p>Analogue Addressable Class P Heat Sensor with Red Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following sounder tone settings:</p> <ul style="list-style-type: none"> - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs <p>2. Meets the requirements of EN 54-5 at the following settings:</p> <ul style="list-style-type: none"> - State 0 - Class A1 heat - State 5 - Class B heat - State 6 - Class BS Heat - State 7 - Class A2S heat - State 13 - Class A2 heat <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 or the following category (light pattern details):</p> <ul style="list-style-type: none"> - High power setting - (Category C: C-3-14 and Category O: O-4.5-14) - Medium power setting - (Category C: C-3-13 and Category O: O-4-13) - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) <p>Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	567ac/03
<p>SEN-780-VAD-LPW</p> <p>Analogue Addressable Class P Heat Sensor with White Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following sounder tone settings:</p> <ul style="list-style-type: none"> - High - Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs <p>2. Meets the requirements of EN 54-5 at the following settings:</p> <ul style="list-style-type: none"> - State 0 - Class A1 heat - State 5 - Class B heat - State 6 - Class BS Heat - State 7 - Class A2S heat - State 13 - Class A2 heat <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following category (light pattern details):</p> <ul style="list-style-type: none"> - Low power setting - (Category C: C-3-10 and Category O: None) - Synchronization - Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p>	567ac/04
<p>SEN-780-VAD-HPW</p> <p>Analogue Addressable Class P Heat Sensor with White Visual Alarm and Sounder with Short Circuit Isolator (S4-701 Base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following sounder tone settings:</p> <ul style="list-style-type: none"> - High- Continuous 933 Hz - Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs 	567ac/05

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No.

SEN-770-S	<p>2. Meets the requirements of EN 54-5 at the following settings:</p> <ul style="list-style-type: none">- State 0 - Class A1 heat- State 5 - Class B heat- State 6 - Class BS Heat- State 7 - Class A2S heat- State 13 - Class A2 heat <p>3. The ceiling mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 category (light pattern details):</p> <ul style="list-style-type: none">- High power setting - (Category C: C-6-16 and Category O: None)- Medium power setting - (Category C: C-3-14 and Category O: O-5-14)- Low power setting - (Category C: C-3-10.8 and Category O: O-4-10.8)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>4. Must be used with the S4-701 base and IP seal plate in order to achieve IP21C</p> <p>Analogue Addressable Optical Smoke and Class P Heat Multi-Sensor Detector with Sounder (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings: High - Continuous 933 Hz Alternate - High 933 Hz for 0.25 secs / Low 700 Hz for 0.25 secs</p> <p>2. Meets the requirements of EN 54-5 and EN 54-7 at the following settings except where otherwise stated:</p> <ul style="list-style-type: none">- State 0 - Medium optical / Class A1 heat- State 2 - Low sensitivity / Class A1 heat*- State 3 - High sensitivity / Class A1 heat- State 4 - Medium optical (no spike) / Class A1 heat- State 5 - Medium optical / Class B heat- State 6 - Low sensitivity / Class BS heat*- State 7 - Medium optical / Class A2S heat- State 8 - Delayed medium optical / Class A1 heat- State 11 - Low sensitivity / Class B heat*- State 12 - Off / Class A1 heat* <p>*Does not meet the requirements of EN 54-7</p>	567j/08
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Bases:

S4-700 standard base
S4-701 S4 Quad Plate and Base
S4-FLUSH Semi-flush fixing kit

Certificate No: 042be to EN54-5: 2000 + A1: 2002, EN54-17: 2005, EN54-18: 2005

Certificate No: 042bd to EN54-7: 2000 + A1: 2002 + A2: 2006, EN54-17: 2005, EN54-18: 2005

Point Smoke Detectors

Certificated Products

LPCB Ref.
No.

SEN-715	<p>S-Quad Analogue Addressable Optical Smoke Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note:</p> <p>1. Meets the requirements of EN 54-7 at the following settings:</p> <ul style="list-style-type: none">- State 0 - Medium optical- State 3 - High sensitivity- State 4 - Medium optical (no spike)- State 8 - Delayed medium optical	042bd/01
SEN-720	<p>S-Quad Analogue Addressable Class P Heat Detector with Short Circuit Isolator (S4-700 Standard base with or without S4-FLUSH semi-flush mounting kit) Note:</p> <p>1. Meets the requirement of EN 54-5 at the following settings:</p> <ul style="list-style-type: none">- State 0 - Class A1 heat- State 5 - Class B heat- State 6 - Class BS heat- State 7 - Class A2S heat- State 13 - Class A2 heat	042be/01

Bases:

S4-700 standard base
S4-FLUSH semi-flush fixing kit

Certificate No: 042bh to EN 54-12:2015 & EN 54-17:2005

Beam Detectors
Certificated Products

		LPCB Ref. No.
SENTRI-BEAM	Analogue addressable optical beam smoke detector with short circuit isolator (SEN-741-01, SEN-741-03 and S4-700 base) Notes: 1. The SENTRI-BEAM sensor pair comprises of an SENTRI-BEAM-TX beam transmitter, plus an SENTRI-BEAM-RX beam receiver. 2. Meets the requirements of EN 54-12 at the following sensitivity settings: States 0, 1: 3.01dB States 2, 3: 1.25dB	042bh/01
SEN-741-01	Beam Angle Bracket	
SEN-741-03	Beam Parallel Bracket	
S4-700	Base	

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Certificate No: 548c-(cl-7) to EN 54-5: 2000 + A1: 2002

Heat Detectors
Certificated Products

		LPCB Ref. No.
SHC-9103E	Conventional Rate of Rise and Fixed Temperature Heat Detector (SE-DB-01 & SE-DB-01D Bases and SE-DP-9907 Unit) Note: 1. Meets the requirements of EN 54-5:2000 for Class A1R, A2S & BS	548c/03
SHA-9103E	Intelligent Rate of Rise and Fixed Temperature Heat Detector (SE-DB-01 Base) Note: 1. Meets the requirements of EN 54-5:2000 for Class A1R, A2S & BS	548c/04

Bases

SE-DB-01	Standard Base
SE-DB-01D	Diode Base
SE-DP-9907	Active End of Line Unit

Certificate No: 548d-(cl-7) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors
Certificated Products

		LPCB Ref. No.
SMC-9102E	Conventional Photoelectric Smoke Detector (SE-DB-01 & SE-DB-01D Bases and SE-DP-9907 Unit) Note: 1. Meets the requirements of EN 54-7:2000 at sensitivity level 1 (default) setting only	548d/03
SMA-9102E	Intelligent Photoelectric Smoke Detector (SE-DB-01 Base) Note: 1. Meets the requirements of EN 54-7:2000 at sensitivity level 1 (default) setting only	548d/04

Bases

SE-DB-01	Standard Base
SE-DB-01D	Diode Base
SE-DP-9907	Active End of Line Unit

Certificate No: 548k-(cl-7) to EN 54-12: 2015

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COMMERCIAL DETECTORS

Beam Detectors

Certificated Products

SE-9105R	Intelligent Optical Beam Detector Notes: 1) Meets the requirements of EN 54-12 at the following sensitivity settings: Level 1 - 1.61 dB Level 2 - 2.31 dB	LPCB Ref. No. 548k/01
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Certificate No: 548q-(cl-3) to EN 54-5: 2000 + A1: 2002 & EN 54-7: 2000 + A1 :2002 + A2: 2006 & CEA 4021: July 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

SCC-9101E	Conventional Combination Heat / Photoelectric Smoke Detector (SE-DB-01 & SE-DB-01D Bases and SE-DP-9907 Unit) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R	LPCB Ref. No. 548q/03
SCA-9101E	Intelligent Combination Heat / Photoelectric Smoke Detector (SE-DB-01 Base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A2R	548q/04

Bases

SE-DB-01	Standard Base
SE-DB-01D	Diode Base
SE-DP-9907	Active End of Line Unit

Sterling Safety Systems

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom

Tel: +44(0)1926485282 • Fax: +44(0)1926485090

E-mail: info@sterlingsafety.co.uk • Website: www.sterlingsafety.co.uk

Certificate No: 928a to EN 54-5: 2000 + A1: 2002 and EN 54-17: 2005

Certificate No: 928d to EN 54-5: 2000 + A1: 2002

Certificate No: 928m-(cl-6) to EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002 +A2 :2006 EN 54-25: 2008

Certificated Products

HFI-TA-05	Analogue Addressable Class P Heat Detector with Short-Circuit Isolator (HFI-DMBS-05 Base) Note: 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	LPCB Ref. No. 928a/02
HFI-TAE-05	Addressable Class P Heat Detector (HFI-DMBS-05 Base) Note: 1. Meets the requirements of EN 54-5 for Class A1R, Class B and Class BS	928d/03

Bases

HFI-UB-01	Universal adaptor base
HFI-DUB-01	Deep adaptor base
HFI-DMB-01	Vega adaptor base
HFI-DDB-01	Vega deep adaptor base
HFI-UBS-01	Universal adaptor base with shorting clip
HFI-DUBS-01	Deep adaptor base with shorting clip
HFI-DMBS-01	Vega adaptor base with shorting clip
HFI-DDBS-01	Vega deep adaptor base with shorting clip
WAB100	Wireless Adaptor Base
HFI-DMBS-05	Low profile adaptor base

Certificate No: 928b to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificate No: 928e to EN 54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors
Certificated Products

		LPCB Ref. No.
HFI-PA-05	Addressable Photoelectric Smoke Detector with Short-Circuit Isolator (HFI-DMBS-05 Base) <i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928b/02
HFI-PAE-05	Addressable Photoelectric Smoke Detector (HFI-DMBS-05 Base) <i>Note:</i> 1. Meets the requirements of EN 54-7 at the following sensitivity settings: Optical only - level 1 - High Optical only - level 2 Optical only - level 3 Optical only - level 4 - Low	928e/03

Bases

HFI-UB-01	Universal adaptor base
HFI-DUB-01	Deep adaptor base
HFI-DMB-01	Vega adaptor base
HFI-DDB-01	Vega deep adaptor base
HFI-UBS-01	Universal adaptor base with shorting clip
HFI-DUBS-01	Deep adaptor base with shorting clip
HFI-DMBS-01	Vega adaptor base with shorting clip
HFI-DDBS-01	Vega deep adaptor base with shorting clip
HFI-DMBS-05	Low profile adaptor base
WAB 100 Wireless Adaptor Base	

Certificate No: 928c to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005 and CEA 4021: 2003
Certificate No: 928f to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 and CEA 4021: 2003

Multi-Sensor Detectors
Certificated Products

		LPCB Ref. No.
HFI-MA-05	Addressable Multi-Criteria Detector with Short-Circuit Isolator (HFI-DMBS-05 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi Criteria Level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi Criteria Level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only level 1 - High Optical only level 2 Optical only level 3 Optical only level 4 - Low	928c/02
HFI-MAE-05	Addressable Photo & Class A1R Heat Detector (HFI-DMBS-05 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-5 (Class A1) & EN 54-7 at the following settings: Multi criteria level 1 (most sensitive) - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 2 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 3 - Thermally enhanced smoke detection with Class A1 heat response Multi criteria level 4 (least sensitive) - Thermally enhanced smoke detection with Class A1 heat response 2. Meets the requirements of EN 54-5 (Class A1R) at the following settings: Class A1R heat only response 3. Meets the requirements of EN 54-7 at the following settings: Optical only - level 1 - High sensitivity	928f/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
HFW-MA-05	<p>Optical only - level 2 Optical only - level 3 Optical only - level 4 - Low sensitivity</p> <p>Wireless Libra Addressable Multicriteria Detector (WAB100 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-5 for Class A1R2. Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low3. The device must be used with the following battery type only: CR123A (3 Vdc) - Primary and Secondary Battery	928m/02

Bases

HFI-UB-01	Universal adaptor base
HFI-DUB-01	Deep adaptor base
HFI-DMB-01	Vega adaptor base
HFI-DDB-01	Vega deep adaptor base
HFI-UBS-01	Universal adaptor base with shorting clip
HFI-DUBS-01	Deep adaptor base with shorting clip
HFI-DMBS-01	Vega adaptor base with shorting clip
HFI-DDBS-01	Vega deep adaptor base with shorting clip
HFI-DMBS-05	Low profile adaptor base
WAB 100	Wireless Adaptor Base

Certificate No: 928k-(cl-6) to EN 54-7: 2000 + A1: 2002 + A2: 2006 and EN 54-25: 2008

Smoke Detectors

Certificated Products

		LPCB Ref. No.
HFW-PA-01	<p>Wireless optical smoke detector (WAB100 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-7 in the normal sensitivity setting2. The device must be used with the following batteries only:<ul style="list-style-type: none">• CR123A (3 Vdc) - main battery• CR2032A (3 Vdc) - secondary battery	928k/01
HFW-PA-05	<p>Wireless Libra Addressable Optical Smoke Detector (WAB100 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">1 Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low2 The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	928k/02
ROP-E	<p>Wireless Addressable Optical Smoke Detector (WAB100 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">1 Meets the requirements of EN 54-7 at the following sensitivity settings: Level 1 - High Level 2 - Normal Level 3 - Low2 The device must be used with the following battery type only: - CR123A (3 Vdc) - Primary and Secondary Battery	928k/02

Bases:

WAB100	Wireless Adaptor Base
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Certificate No: 928m-(cl-6) to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-25: 2008 and CEA 4021: 2003

Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
HFW-MA-01	<p>Wireless multi-criteria detector (WAB100 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-5 for Class A1R2. Meets the requirements of EN 54-7 in the normal sensitivity setting3. The device must be used with the following batteries only:<ul style="list-style-type: none">• CR123A (3 Vdc) - main battery• CR2032A (3 Vdc) - secondary battery	928m/01

Certificated Products

		LPCB Ref. No.
HFW-MA-05	Wireless Libra Addressable Multicriteria Detector (WAB100 Base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5 for class A1R</i> 2. <i>Meets the requirements of EN 54-7 in the normal sensitivity setting</i> <i>Level 1 - High</i> <i>Level 2 - Normal</i> <i>Level 3 - Low</i> 3. <i>The device must be used with the following batteries only</i> <i>CR123A (3 Vdc) -Primary and Secondary Battery</i>	928m/02
RMC-E	Wireless Addressable Multicriteria Detector (WAB100 Base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5 for Class A1R</i> 2. <i>Meets the requirements of EN 54-7 in the normal sensitivity setting</i> <i>Level 1 - High</i> <i>Level 2 - Normal</i> <i>Level 3 - Low</i> 3. <i>The device must be used with the following batteries only</i> <i>CR123A (3 Vdc) -Primary and Secondary Battery</i>	928m/02

Bases:

WAB100 Wireless Adaptor Base

Certificate No: 928j-(cl-6) to en 54-5:2000 + A1:2002 EN 54-25:2008

Certificated Products

		LPCB Ref. No.
HFW-TA-01	Wireless Heat Detector (WAB100 Base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5 for Class A1R</i> 2. <i>The device must be used with the following batteries only:</i> <i>CR123A (3 Vdc) - Main Battery</i> <i>CR2032A (3 Vdc) - Secondary Battery</i>	928j/01
HFW-TA-05	Wireless Libra Addressable Class P Heat Detector (WAB100 Base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5 for Class A1R and BS</i> 2. <i>The device must be used with the following battery type only:</i> <i>CR123A (3 Vdc) - Primary and Secondary Battery</i>	928j/02
RHT-E	Wireless Addressable Class P Heat Detector (WAB100 Base) <i>Notes:</i> 1. <i>Meets the requirements of EN 54-5 for Class A1R and BS</i> 2. <i>The device must be used with the following battery type only:</i> <i>CR123A (3 Vdc) - Primary and Secondary Battery</i>	928j/02

WAB 100 Wireless Adaptor Base

Syncoln Ltd

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Tel: +44 (0)207 514 5813
E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010p-(cl-6) to EN 54-5:2000 +A1:2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
5000-300	Syncoln Analogue Addressable Heat Detector (5000-100 base) <i>Notes:</i> 1. <i>Meets the requirements of EN54: Part 5 at the following modes:</i> - <i>Class A1R in mode 1 and in conventional mode</i> - <i>Class A2 in mode 2 and in conventional mode</i>	010p/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

		LPCB Ref. No.
	- Class A2S in mode 3 and in conventional mode - Class CR in mode 4 and in conventional mode - Class CS in mode 5 and in conventional mode <i>Certified with Apollo Discovery, XP95, and S90 digital communications protocols configured for the Discovery Heat Detector in accordance with manufacturers instructions.</i>	
2000-300	Syncoln Series 27 A1R Heat Detector with Flashing LED (2000-100 base) <i>Note:</i> <i>Meets the requirements of EN54: Part 5 at Class A1R</i>	010p/05
2000-301	Syncoln Series 27 BR Heat Detector with Flashing LED (2000-100 base) <i>Note:</i> <i>1. Meets the requirements of EN54: Part 5 at Class BR</i>	010p/08
2000-302	Syncoln Series 27 CS Heat Detector with Flashing LED (2000-100 base) <i>Note:</i> <i>1. Meets the requirements of EN54: Part 5 at Class CS</i>	010p/14

Bases

2000-100	Syncoln Series 27 Standard Base
5000-100	Syncoln Mounting Base

Certificate No: 010q-(cl-6) to EN 54-7:2000 +A1:2002 +A2:2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
5000-200	Syncoln Analogue Addressable Photoelectric Smoke Detector (5000-100 base) <i>Note:</i> <i>1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and inconventional mode.</i> <i>Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.</i>	010q/03
2000-200	Syncoln Series 27 Optical Smoke Detector with Flashing LED (2000-100 base)	010q/11

Bases

2000-100	Syncoln Series 27 Standard Base
5000-100	Syncoln Mounting Base

Certificate No: 010h-(cl-2) to EN 54-7:2000 +A1:2002 +A2:2006, EN 54-5:2000 +A1:2002 & CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
5000-400	Syncoln Analogue Addressable Multisensor Detector (5000-100 base) <i>Notes:</i> <i>1. Certified at the following settings:</i> <i>Mode 1 - High sensitivity smoke detector with standard heat enhancement</i> <i>Mode 2 - Smoke detection only</i> <i>Mode 3 - Medium sensitivity smoke detector with standard heat enhancement</i> <i>Mode 4 - Low sensitivity smoke detector with high heat enhancement</i> <i>Mode 5 - Class A1 heat detector</i> <i>Also approved in conventional alarm modes 1, 2, 3, 4 and 5</i> <i>2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturers instructions.</i>	010h/01

Base

5000-100	Syncoln Mounting Base
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Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom

Tel: +44 8451162945

E-mail: info@tanda.com • Website: www.tanda.com

Certificate No: 1330a-(cl-1) to EN 54-12:2015

Beam Detectors

Certificated Products

TX7130

Conventional Reflective Beam Detector

Notes:

1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:
Level 1: 2.6 dB High sensitivity
Level 2: 3.8 dB Medium sensitivity
Level 3: 5.8 dB Low sensitivity
2. Suitable for use at the following separation ranges:
Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)
Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)
Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)
Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)

LPCB Ref. No.
1330a/01

Accessories:

Mounting Bracket

TX7130-R 1 x Mirror Reflector

TX7130-R 4 x Mirror Reflector

Certificate No: 1330c-(cl-1) to EN 54-5:2000 +A1:2002

Heat Detectors

Certificated Products

TX7110

Intelligent Heat Detector (TX7980 Base)

Note:

1. Meets the requirements of EN 54-5 for Class A1R.

LPCB Ref. No.
1330c/01

Base

TX7980 Detector Base

Certificate No: 1330b-(cl-1) to EN 54-7:2000 +A1:2002 +A2:2006

Smoke Detectors

Certificated Products

TX7100

Intelligent Smoke Detector (TX7980 base)

LPCB Ref. No.
1330b/01

Base

TX7980 Detector base

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore

Tel: +86013223307015

E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330c-(cl-4) to EN 54-5: 2000+ A1: 2002

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

TX7110 Intelligent Heat Detector (TX7980 Base)
Note:
1. Meets the requirements of EN 54-5 for Class A1R

LPCB Ref. No.
1330c/01

Base
TX7980

Certificate No: 1330b-cl-4) to EN 54-7: 2000+ A1: 2002 + A2: 2006

Certificated Products

TX7100 Intelligent Smoke Detector (TX7980 Base)

LPCB Ref. No.
1330b/01

Base
TX7980

Certificate No: 1330a-(cl-8) to EN 54-12:2015

Approved Products

TX7130 Conventional Reflective Beam Detector
Notes:
1. Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:
- Level 1: 2.6 dB High sensitivity
- Level 2: 3.8 dB Medium sensitivity
- Level 3: 5.8 dB Low sensitivity
2. Suitable for use at the following separation ranges:
- Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)
- Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)
- Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)
- Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)
Accessories
Mounting Bracket
TX7130-R 1 x Mirror Reflector
TX7130-R 4 x Mirror Reflector

LPCB Ref. No.
1330a/01

Tanda Technologies (Singapore) Pte Ltd

217 Kallang Bahru, #04-02, Singapore 339347, Singapore

Tel: +62913176 • Fax:

E-mail: tandatech@yahoo.com

Certificate No: 1148a-(cl-1) to EN 54-5: 2000 + A1: 2002

Heat Detectors

Certificated Products

DET-C632 Conventional rate of rise & fixed temperature heat detector (DB-6 standard base)
Note:Meets the requirements of EN 54-5 at Class A2R

LPCB Ref. No.
1148a/01

Bases:

DB-6 Standard detector base

Certificate No: 1148b-(cl-1) to EN 54-7: 2000 + A1: 2002 + A2: 2006

Smoke Detectors

Certificated Products

DET-C631 Conventional optical smoke detector (DB-6 standard base)
Note:Meets the requirements of EN 54-7 in the normal sensitivity setting.

LPCB Ref. No.
1148b/01

Bases:
DB-6 Standard detector base

Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139j to EN 54-5: 2000 + A1: 2002, EN 54-17: 2005

Heat Detectors Certificated Products

SensolRIS T110 IS Intelligent Analogue Addressable Class A1R Fire Alarm Heat Detector with Built-In Isolator Module (B124 Base)

LPCB Ref.
No.
1139j/01

Base:
B124 Standard analogue addressable detector base

Certificate No: 1139k to EN 54-7: 2000 + A1: 2002 + A2: 2006, EN 54-17: 2005

Smoke Detectors Certificated Products

SensolRIS S130 IS Intelligent Analogue Addressable Fire Alarm Optical Smoke Detector with Built-In Isolator Module (B124 Base)

LPCB Ref.
No.
1139k/01

Base:
B124 Standard analogue addressable detector base

Certificate No: 1139m to EN 54-5: 2000 + A1: 2002, EN 54-7: 2000 + A1: 2002 + A2: 2006 & CEA 4021: 2003, EN 54-17:2005

Multi-Sensor/Multi-Criteria Detectors Certificated Products

SensolRIS M140 IS Intelligent Analogue Addressable A1R Combined Heat and Optical Smoke Detector with Built-In Isolator Module (B124 Base)

LPCB Ref.
No.
1139m/01

Base:
B124 Standard analogue addressable detector base

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, Schaffhausen 8212, Switzerland
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681b-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003
Certificate No: 681j-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006
Certificate No: 681w-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005, CEA4021:2003
Certificate No: 681ay-(cl-1) to EN 54-7:2018, EN 54-29:2015

Certificated Products

701PH Conventional Optical Smoke Detector with Heat Enhancement (516.900.002)
(4B, 4BD, 5B and 5BD bases)
840PC MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide
Detector
(4B, 4B-C, 4B-I, and 5B bases)
Notes:

LPCB Ref.
No.
681ay/02
681b/02

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
830PC (516.830.054)	681b/03
<p>1) <i>Approved with the following mode configurations:-</i></p> <ul style="list-style-type: none">- UNIV Universal optical smoke and A2S heat multi-criteria detector- RESIL Resilient optical smoke and A2S heat multi-criteria detector- Heat detector at Class A1R- HPO Heat enhanced optical smoke detector at Normal sensitivity <p>2) <i>The Carbon Monoxide toxic gas/CCO modes are not approved</i></p> <p>MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-C, 4B-I, and 5B bases)</p>	
<p>Notes:</p> <p>1) <i>Approved with the following mode configurations:-</i></p> <ul style="list-style-type: none">- UNIV Universal optical smoke and A2S heat multi-criteria detector- RESIL Resilient optical smoke and A2S heat multi-criteria detector- Heat detector at Class A1R- HPO Heat enhanced optical smoke detector at Normal sensitivity <p>2) <i>The Carbon Monoxide toxic gas/CCO modes are not approved</i></p> <p>3) <i>Also available in the following coloured housings:</i></p> <ul style="list-style-type: none">- Orange semi-gloss (517.050.502)- Yellow gloss (517.050.503)- Green matt (517.050.504)- Red matt (517.050.505)- Brown matt (517.050.506)- Blue gloss (517.050.507)- Pink gloss (517.050.508)- Silver metallic (517.050.509)- Gold metallic (517.050.510)- Black matt (517.050.511)	
FC460PC	681b/03
<p>FireClass Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector (4B, 4B-C, 4B-I, and 5B bases)</p>	
<p>Notes:</p> <p>1) <i>Approved with the following mode configurations:-</i></p> <ul style="list-style-type: none">- UNIV Universal optical smoke and A2S heat multi-criteria detector- RESIL Resilient optical smoke and A2S heat multi-criteria detector- Heat detector at Class A1R- HPO Heat enhanced optical smoke detector at Normal sensitivity <p>2) <i>The Carbon Monoxide toxic gas/CCO modes are not approved</i></p> <p>MX Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-C, 4B-I, and 5B bases)</p>	
840PH	681b/04
<p>Note:</p> <p><i>Approved with the following mode configurations:-</i></p> <ul style="list-style-type: none">- Heat detector at Class A1R- Heat detector at Class A2S- OPT Optical smoke detector at High, Normal and Low sensitivity- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	
4098-6257	681b/05
<p>Simplex Digital Addressable Photo / Heat 830 Series Sensor (4098-5272 base)</p>	
<p>Notes:</p> <p>1) <i>Approved with the following mode configurations:-</i></p> <ul style="list-style-type: none">- Heat detector at Class A1R- Heat detector at Class A2S- OPT Optical smoke detector at High, Normal and Low sensitivity- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic.	
830PH (516.830.051)	681b/05
<p>MX Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-C, 4B-I, and 5B bases)</p> <p>Notes:</p> <p>1) <i>Approved with the following mode configurations:-</i></p> <ul style="list-style-type: none">- Heat detector at Class A1R- Heat detector at Class A2S- OPT Optical smoke detector at High, Normal and Low sensitivity- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. <p>2) <i>Also available in the following coloured housings:</i></p> <ul style="list-style-type: none">- Orange semi-gloss (517.050.502)- Yellow gloss (517.050.503)	

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<ul style="list-style-type: none"> - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511) FC460PH FireClass Digital Addressable Photoelectric Smoke and Class P Heat Detector (4B, 4B-C, 4B-I, and 5B bases)	681b/05
Note: Approved with the following mode configurations:- <ul style="list-style-type: none"> - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 	
601PH Conventional High Performance Photoelectric Smoke Detector (4B, 4B-D and 5B Bases)	681j/01
MR601TEEx Conventional Intrinsically Safe High Performance Photoelectric Smoke Detector with Heat Enhancement (MUBEx base, 5BEx Bases)	681j/02
4098-6254 Simplex Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4098-5272 base)	681w/01
Notes: <ol style="list-style-type: none"> 1. Approved with the following mode configurations:- <ul style="list-style-type: none"> - UNIV Universal optical smoke and A2S heat multi-criteria detector - RESIL Resilient optical smoke and A2S heat multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO modes are not approved 3. Also available in the following coloured housings: <ul style="list-style-type: none"> - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511) 	
850PC (516.850.054) MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4B, 4B-C and 5B bases)	681w/01
Notes: <ol style="list-style-type: none"> 1. Approved with the following mode configurations:- <ul style="list-style-type: none"> - UNIV Universal optical smoke and A2S heat multi-criteria detector - RESIL Resilient optical smoke and A2S heat multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO modes are not approved 3. Also available in the following coloured housings: <ul style="list-style-type: none"> - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511) 	
850PC (516.850.054.E) MX Digital Addressable Photoelectric Smoke, Class P Heat and Carbon Monoxide Detector with Short Circuit Isolator (4B, 4B-C and 5B bases)	681w/01
Notes: <ol style="list-style-type: none"> 1. Approved with the following mode configurations:- <ul style="list-style-type: none"> - UNIV Universal optical smoke and A2S heat multi-criteria detector - RESIL Resilient optical smoke and A2S heat multi-criteria detector - Heat detector at Class A1R - HPO Heat enhanced optical smoke detector at normal sensitivity 2. The Carbon Monoxide toxic gas/CCO modes are not approved 3. Also available in the following coloured housings: 	

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**LPCB Ref.
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	<ul style="list-style-type: none">- Orange semi-gloss (517.050.502)- Yellow gloss (517.050.503)- Green matt (517.050.504)- Red matt (517.050.505)- Brown matt (517.050.506)- Blue gloss (517.050.507)- Pink gloss (517.050.508)- Silver metallic (517.050.509)- Gold metallic (517.050.510)- Black matt (517.050.511)	
4098-6251	Simplex Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator (4098-5272 base) Note: 1. Approved with the following mode configurations:- <ul style="list-style-type: none">- Heat detector at Class A1R- Heat detector at Class A2S- OPT Optical smoke detector at High, Normal and Low sensitivity- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: <ul style="list-style-type: none">- Orange semi-gloss (517.050.502)- Yellow gloss (517.050.503)- Green matt (517.050.504)- Red matt (517.050.505)- Brown matt (517.050.506)- Blue gloss (517.050.507)- Pink gloss (517.050.508)- Silver metallic (517.050.509)- Gold metallic (517.050.510)- Black matt (517.050.511)	681w/03
850PH (516.850.051)	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations:- <ul style="list-style-type: none">- Heat detector at Class A1R- Heat detector at Class A2S- OPT Optical smoke detector at High, Normal and Low sensitivity- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: <ul style="list-style-type: none">- Orange semi-gloss (517.050.502)- Yellow gloss (517.050.503)- Green matt (517.050.504)- Red matt (517.050.505)- Brown matt (517.050.506)- Blue gloss (517.050.507)- Pink gloss (517.050.508)- Silver metallic (517.050.509)- Gold metallic (517.050.510)- Black matt (517.050.511)	681w/03
850PH (516.850.051.E)	MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator (4B, 4B-C, and 5B bases) Note: 1. Approved with the following mode configurations:- <ul style="list-style-type: none">- Heat detector at Class A1R- Heat detector at Class A2S- OPT Optical smoke detector at High, Normal and Low sensitivity- FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic- HPO Heat enhanced optical smoke at High, Normal and Low sensitivity- FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 2. Also available in the following coloured housings: <ul style="list-style-type: none">- Orange semi-gloss (517.050.502)- Yellow gloss (517.050.503)- Green matt (517.050.504)- Red matt (517.050.505)- Brown matt (517.050.506)- Blue gloss (517.050.507)	681w/03

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COMMERCIAL DETECTORS

Certificated Products	LPCB Ref. No.
<p>851PHN</p> <ul style="list-style-type: none"> - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511) <p>MX Digital Addressable Photoelectric Smoke and Class P Heat Detector with Short Circuit Isolator [Ex N Version] (4B-EN Base)</p> <p>Note:</p> <p>1. Approved with the following mode configurations:-</p> <ul style="list-style-type: none"> - Heat detector at Class A1R - Heat detector at Class A2S - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic - HPO Heat enhanced optical smoke at High, Normal and Low sensitivity - FL HPO Heat enhanced optical smoke at High, Normal and Low sensitivity using FastLogic. 	681w/05

Bases:

4B	4" universal mounting base
4B-C	4" continuity base
4B-I	4" isolator base
4B-D	4" diode mounting base
4B-EN	4" Ex(N) mounting base
5B	5" universal mounting base
5BD	Conventional Diode Base
MUBEx	Intrinsically safe detector base
5BEx	Intrinsically safe detector base
4098-5272	Standard 4IN detector base

Certificate No: 681c-(cl-1) to EN 54-5:2000 + A1:2002
Certificate No: 681p-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-17:2005
Certificate No: 681ba-(cl-1) to EN 54-5:2017

Certificated Products	LPCB Ref. No.	
701H	Conventional Class A1R Rate of Rise Heat Detector (516.900.003) (4B, 4BD, 5B and 5BD Bases)	681ba/01
702H	Conventional Class A1S Fixed (60C) Heat Detector (516.900.004) (4B, 4BD, 5B and 5BD Bases)	681ba/02
703H	Conventional Class CS Fixed (90C) Heat Detector (516.900.005) (4B, 4BD, 5B and 5BD Bases)	681ba/03
601H-R	Conventional Class A1R Heat Detector (4B, 4B-D & 5B bases)	681c/02
MD601Ex	Conventional Intrinsically Safe Class A1R Rate of Rise Heat Detector (MUBEx and 5BEx bases)	681c/04
MD611Ex	Conventional Intrinsically Safe Class A1S Fixed Temperature Heat Detector (MUBEx and 5BEx bases)	681c/05
611H-F	Conventional Class A1S Fixed Temperature Heat Detector (4B, 4B-D and 5B bases)	681c/07
631H-F	Conventional Class CS Fixed Temperature Heat Detector (4B, 4B-D and 5B bases)	681c/08
840H	MX Digital Addressable Class P Heat Detector (4B, 4B-I, and 5B bases)	681c/09
	<p>Note:</p> <p>Approved with the following mode configurations:-</p> <ul style="list-style-type: none"> - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 	
4098-6255	<p>Simplex Digital Addressable Heat 830 Series Sensor (4098-5272 base)</p> <p>Note:</p> <p>Approved with the following mode configurations:</p> <ul style="list-style-type: none"> - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector as Class CR 	681c/10
830H (516.830.053)	<p>MX Digital Addressable Class P Heat Detector (4B, 4B-I, and 5B bases)</p> <p>Notes:</p> <p>Approved with the following mode configurations:-</p> <ul style="list-style-type: none"> - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR <p>2. Also available in the following coloured housings:</p> <ul style="list-style-type: none"> - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) 	681c/10

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Certificated Products	LPCB Ref. No.
- Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
FC460H FIRECLASS Digital Addressable Class P Heat Detector (4B, 4B-I and 5B bases) Note: Approved with the following mode configurations:- - Heat Detector at Class A1R - Heat Detector at Class A2S - Heat Detector at Class CR	681c/10
4098-6253 Simplex Digital Addressable Class P Heat Detector with Short Circuit Isolator (4098-5272 base) Notes: 1. Approved with the following mode configurations:- - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681p/01
850H (516.850.053) MX Digital Addressable Class P Heat Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681p/01
850H (516.850.053.E) MX Digital Addressable Class P Heat Detector with Short Circuit Isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - Heat detector at Class A1R - Heat detector at Class A2S - Heat detector at Class CR 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681p/01

Bases:

4B	4" universal mounting base
4B-D	4" diode mounting base
4B-C	4" continuity base

4B-I 4" isolator base
 5B 5" universal mounting base
 MUBEx Intrinsically safe detector base
 5BEx Intrinsically safe detector base
 4098-5272 Standard 4IN detector base

Certificate No: 681d-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006
Certificate No: 681z-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, EN 54-17:2005
Certificate No: 681az-(cl-1) to EN 54-7:2018

Certificated Products		LPCB Ref. No.
701P	Conventional Optical Detector (516.900.001) (4B, 4BD, 5B and 5BD bases)	681az/01
601P	Conventional Photoelectric Smoke Detector (4B, 4B-D and 5B bases)	681d/03
840P	MX Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases)	681d/06
	<i>Note:</i> Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	
4098-6256	Simplex Digital Addressable Photoelectric 830 Series Sensor (4098-5272 base)	681d/07
	<i>Note:</i> Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	
830P (516.830.052)	MX Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases)	681d/07
	<i>Notes:</i> 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
FC460P	Fireclass Digital Addressable Photoelectric Smoke Detector (4B, 4B-I, and 5B bases)	681d/07
	<i>Note:</i> Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic	
4098-6252	Simplex Digital Addressable Photoelectric Smoke Detector with Short Circuit Isolator (4098-5272 base)	681z/01
	<i>Notes:</i> 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	
850P (516.850.052)	MX digital addressable photoelectric smoke detector with short circuit isolator (4B, 4B-C and 5B bases)	681z/01
	<i>Notes:</i> 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503)	

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COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
	<ul style="list-style-type: none">- Green matt (517.050.504)- Red matt (517.050.505)- Brown matt (517.050.506)- Blue gloss (517.050.507)- Pink gloss (517.050.508)- Silver metallic (517.050.509)- Gold metallic (517.050.510)- Black matt (517.050.511)	
850P (516.850.052.E)	MX digital addressable photoelectric smoke detector with short circuit isolator (4B, 4B-C and 5B bases) Notes: 1. Approved with the following mode configurations:- - OPT Optical smoke detector at High, Normal and Low sensitivity - FL OPT Optical smoke detector at High, Normal and Low sensitivity using FastLogic 2. Also available in the following coloured housings: - Orange semi-gloss (517.050.502) - Yellow gloss (517.050.503) - Green matt (517.050.504) - Red matt (517.050.505) - Brown matt (517.050.506) - Blue gloss (517.050.507) - Pink gloss (517.050.508) - Silver metallic (517.050.509) - Gold metallic (517.050.510) - Black matt (517.050.511)	681z/01

Bases:

4B	4" Universal mounting base
4B-C	4" Continuity base
4B-D	Diode mounting base
4B-I	4" Isolator base
5B	5" Universal mounting base
4098-5272	Standard 4IN detector base

Certificate No: 681e-(cl-1) to EN 54-5:2000 + A1:2002, LPS 1265 Issue 01

Certificated Products		LPCB Ref. No.
601CH	Conventional Class A1R Thermally Enhanced Carbon Monoxide Detector (4B, 4B-D and 5B Bases)	681e/01

Bases:

4B	4" Universal Mounting Base
4B-D	Diode Mounting Base
5B	5" Universal Mounting Base

Certificate No: 681r-(cl-1) to EN 54-10:2002 + A1:2005

Certificated Products		LPCB Ref. No.
601F	Conventional Class 2 Flame Detector (4B, 4B-D and 5B bases)	681r/01
601FEx	Conventional Class 2 Intrinsically Safe Flame Detector (MUBEx and 5BEx bases)	681r/02
801F	MX Addressable Class 2 Flame Detector (4B and 5B bases)	681r/03
801FEx	MX Addressable Class 2 Intrinsically Safe Flame Detector (MUBEx and 5BEx bases)	681r/04

Bases:

4B	4" Standard mounting base
4B-D	4" Diode mounting base
5B	Standard mounting base
MUBEx	Intrinsically safe mounting base
5BEx	Intrinsically safe mounting base

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Certificate No: 010p to EN 54-5:2000 +A1:2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
DT654L	Series 65 Conventional Class A1R Heat Detector with Flashing LED (branded as Aritech Ltd) (DB860 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class A1R 2. Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/05
23900-K035-065	Series 65 Conventional Class A1R Heat Detector (branded as Kidde Products Ltd)(23902-H08 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class A1R 2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/06
DT654	Series 65 Conventional Class A1R Heat Detector (branded as Aritech Ltd)(DB860 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class A1R 2. Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/06
DT655L	Series 65 Conventional Class BR Heat Detector with Flashing LED (branded as Aritech Ltd) (DB860 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class BR 2. Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/08
23900-K036-065	Series 65 Conventional Class BR Heat Detector (branded as Kidde Products Ltd)(23902-H08 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class BR 2. Also certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/09
DT655	Series 65 Conventional Class BR Heat Detector (branded as Aritech Ltd)(DB860 base) Notes: 1. Meets the requirements of EN54: Part 5 at Class BR 2. Also certified for use with DB650, DB650R, 45681-247, 45681-248 and 45681-201 mounting bases.	010p/09

Bases

23902-H08	Series 60/65 mounting base
DB860	Series 60/65 mounting base
DB650	Series 65 relay mounting base
DB650R	Series 65 auxiliary relay mounting base

Certificate No: 010q to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
23900-K142	Discovery Analogue Addressable Photoelectric Smoke Detector (branded as Kidde Products Ltd)	010q/03

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Certificated Products	LPCB Ref. No.
(45681-209 and 45681-210 mounting bases) Note: 1. Meets the requirements of EN54: Part 7 in modes 1, 2, 3, 4 and 5 and in conventional mode. Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	
DP652L Series 65 Conventional Optical Detector - Flashing LED (branded as Aritech Ltd) (DB860 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/11
23900-K034-065 Series 65 Conventional Optical Smoke Detector (branded as Kidde Products Ltd) (23902-H08 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
DP652 Series 65 Conventional Optical Smoke Detector (branded as Aritech Ltd) (DB860 mounting base) Note: Also Certified for use with 45681-245, 45681-246, 45681-247, 45681-248 and 45681-201 mounting bases	010q/12
23900-K041 XP95 Analogue Addressable Optical Smoke Detector (branded as Kidde Products Ltd) (45681-209 and 45681-210 mounting bases) Note: Certified with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery optical smoke detectors in accordance with manufacturer's instructions.	010q/18

Bases

DB860	Series 60/65 mounting base
23902-H08	Series 60/65 mounting base
45681-209	XP95/Discovery standard deep mounting base
45681-210	XP95 mounting base

Certificate No: 010h to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006 & CEA 4021:2003
Certificate No: 1320b-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Certificated Products	LPCB Ref. No.
23900-K143 Discovery Analogue Addressable Multisensor Detector (23900-H05 base) Notes: 1. Certified at the following settings: Mode 1 - High sensitivity smoke detector with standard heat enhancement Mode 2 - Smoke detection only Mode 3 - Medium sensitivity smoke detector with standard heat enhancement Mode 4 - Low sensitivity smoke detector with high heat enhancement Mode 5 - Class A1 heat detector Also approved in conventional alarm modes 1, 2, 3, 4 and 5 2. Approved with Apollo Discovery, XP95, and S90 digital communication protocols that have been configured for the Discovery multisensor detector in accordance with manufacturer's instructions.	010h/01
ZX-832-3P Analogue Addressable Combined Photoelectric Smoke and Heat Detector - Polar White (ZP7-SB1 base) Notes: 1. Meets the requirements of EN 54-7: 2000 at sensitivity level 1, Profile 4 (default) setting only 2. Meets the requirements of EN 54-5: 2000 for Class A1	1320b/01
23900-H05 ZP7-SB1 XP95 Mounting Base Standard Base	

Certificate No: 1199d-(cl-1) to EN 54-20:2006

Certificated Products	LPCB Ref. No.
Senator 25 High Sensitivity Aspirating Smoke Detector (Branded as Kidde) Notes:	1199d/01

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COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
Stratos HSSD 2 + Command Module	High Sensitivity Aspirating Command Module Smoke Detector (Branded as Kidde Airsense) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/04
Senator 200 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde) (Senator Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/05
Stratos HSSD 2 Minimum Display Module	High Sensitivity Aspirating Minimum Display Version Smoke Detector (Branded as Kidde Airsense) (Stratos HSSD 2 Stand Alone Command Module Ancillary) Notes: 1. For compliance with Clause 5.10 of EN 54-20:2006, the detector shall be supplied with power from a power supply complying with EN 54-4. 2. The approval of the detector is conditional upon the following requirements: a) Design, installation and commissioning are performed in accordance with the system design manual and instructions. b) The device is approved for sensitivity Classes A, B and C for sensitivities up to 0.62%/m, 1.95%/m and 4.65%/m respectively. The Class of any pipe/hole configuration and detector sensitivity must be determined using PipeCAD.	1199d/05
9-30783	Detector Module for Stratos ModuLaser (Branded AirSense) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes:1. For compliance with EN 54-20:2006, the Detector Module(s) (9-30783) must be used in conjunction with at least one of the following ancillary equipment: - Command Display Module, (Part No: 9-30782)- Standard Display Module, (Part No: 9-30781)- Minimum Display Module, (Part No: 9-30780) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.	1199d/07
9-30783-KID	4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 4-4001-501-1003. Senator ModuLaser, Detector Module (Branded Kidde) Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430) Notes:1. For compliance with EN 54-20:2006, the Detector Module (9-30783-KID) must be used in conjunction with at least one of the following ancillary equipment: - Senator ModuLaser, Command Display Module, (Part No: 9-30782-KID) (Branded Kidde)- Senator ModuLaser, Standard Display Module, (Part No: 9-30781-KID) (Branded Kidde)- Senator ModuLaser, Minimum Display Module, (Part No: 9-30780-KID) (Branded Kidde) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software.	1199d/07
	4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in	

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COMMERCIAL DETECTORS

Certificated Products

FHSD8330	accordance with the system installation manual 04-4001-501-0003-08. LaserSense ModuLaser, Detector Module (Branded Edwards)	LPCB Ref. No. 1199d/07
	Incorporating the following ancillary equipment: -Apollo APIC Card for Stratos ModuLaser (Part No: 9-30430)	
	Notes: 1. For compliance with EN 54-20:2006, the Detector Module (FHSD8330) must be used in conjunction with at least one of the following ancillary equipment: - LaserSense Modulaser, Command Display Module, (Part No: FHSD8320) (Branded Edwards)- LaserSense Modulaser, Standard Display Module, (Part No: FHSD8310) (Branded Edwards)- LaserSense Modulaser, Minimum Display Module, (Part No: FHSD8300) (Branded Edwards) 2. For compliance with clause 5.10 of EN 54-20:2006, all detectors and displays shall be supplied with power from a power supply conforming with the requirements of EN 54-4. 3. The device is approved for sensitivity Classes A, B and C. The Class of any pipework and hole configuration, detector sensitivity and equipment parameters must be determined using PipeCAD software. 4. The approval of the detector is conditional upon the following requirements: - Design including accessories used, installation and commissioning are performed in accordance with the system installation manual 04-4001-501-2003-08.	

Ancillaries:

Stratos HSSD 2 Stand Alone Command Module (Branded as Kidde Airsense)
 Senator Command Module (Branded as Kidde)
 FHSD8320 Command Display Module (Branded as Edwards)
 FSHD8310 Standard Display Module (Branded as Edwards)
 FSHD8300 Minimum Display Module (Branded as Edwards)
 9-30782-KID Command Display Module (Branded as Kidde)
 9-30781-KID Standard Display Module (Branded as Kidde)
 9-30780-KID Minimum Display Module (Branded as Kidde)

Certificate No: 1062f to EN 54-10:2002 + A1:2005

Flame Detectors

Certificated Products

FF746	Edwards Conventional IR ² (Exd) Flameproof Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	LPCB Ref. No. 1062f/01
FF766	Edwards Conventional IR ³ (Exd) Flameproof Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/02
FF756	Edwards Conventional UV/IR ² (Exd) Flameproof Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/03
FF747	Edwards Conventional IR ² Intrinsically Safe Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/04
FF767	Edwards Conventional IR ³ (IS) Intrinsically Safe Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/05
FF742	Edwards Conventional IR ² Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/06
FF762	Edwards Conventional IR ³ Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/07
FF751	Edwards Conventional UV/IR ² Flame Detector (FF705 Bracket) Note: Meets EN 54-10:2002 at Class 1 Only	1062f/08

Ancillaries:

FF705 Adjustable Mounting Bracket

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

UTC Fire & Security Inc. Trading as Edwards Systems Technology

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Joseph Vidulich

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Certificate No: 904e-(cl-1) to EN 54-5:2000 + A1:2002, EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Certificate No: 904c-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006, CEA 4021:2003

Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
SIGA-IPHSI	Intelligent Analogue Addressable Thermally Enhanced Photoelectric and Ionisation Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G, SIGA-AB4GI) Notes: 1. Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904c/01
SIGA-PHSI	Intelligent Analogue Addressable Thermally Enhanced Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G, SIGA-AB4GI) Notes: 1. Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904c/02
SIGA2-PHSI	Intelligent Photoelectric A2R Smoke and Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4, SIGA-IB, SIGA-IB4 and SIGA-AB4G bases) Notes: 1) Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2) The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904e/01
SIGA-PHDI	Intelligent A2R Multisensor Photo-Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4, SIGA-IB, SIGA-IB4, SIGI-IBS and SIGA-AB4G bases) Notes: 1) Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2) Meets the requirements of EN 54-5 at Class A2R 3) The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904e/02

Bases:

SIGI-IBS	Isolator base with switch
SIGA-SB	Standard base
SIGA-SB4	Standard base with trim skirt
SIGA-RB	Relay base
SIGA-RB4	Relay base with trim skirt
SIGA-IB	Isolator Base
SIGA-IB4	Isolator base with 4 inch mounting adaptors
SIGA-AB4G	Sounder base
SIGA-AB4GI	Addressable Type A sounder base RoHS model

Accessories:

SIGA-LED	Indicator
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Certificate No: 904d-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products	LPCB Ref. No.
SIGA-PSI Intelligent Analogue Addressable Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G, SIGA-AB4GI) Notes: 1. Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904d/01
SIGA2-PSI Intelligent Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGA-RB, SIGA-RB4, SIGA-AB4G) Notes: 1. Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904d/02
SIGA-PDI Intelligent Photoelectric Smoke Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G) Notes: 1. Meets the requirements of EN 54-7:2000 at sensitivity settings 1.0%/ft, 2%/ft, 2.5%/ft, 3%/ft, and 3.5%/ft. 2. The SIGA-LED indicator is approved for use with the SIGA-SB and SIGA-SB4 bases	904d/03

Bases:

SIGI-IBS	Isolator base
SIGA-SB	Standard base
SIGA-SB4	Standard base with trim skirt
SIGA-RB	Relay base
SIGA-RB4	Relay base with trim skirt
SIGA-IB	Isolator Base
SIGA-IB4	Isolator base with 4 inch mounting adaptors
SIGA-AB4G	Sounder base
SIGA-AB4GI	Addressable Type A sounder base RoHS model

Accessories:

SIGA-LED	Indicator
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Certificate No: 904b-(cl-1) to EN 54-5:2000 + A1:2002

Point Heat Detectors

Certificated Products	LPCB Ref. No.
SIGA-HRSI Intelligent Analogue Addressable Class A1 & A2R Rate of Rise Heat Detector (SIGA-SB, SIGA-SB4, SIGA-IB, SIGA-IB4, SIGI-IBS, SIGA-RB, SIGA-RB4, SIGA-AB4G, SIGA-AB4GI) Note: 1. The SIGA-LED indicator is also approved for use with the SIGA-SB and SIGA-SB4 bases	904b/01
SIGA2-HRSI Intelligent A1/A2R Rate of Rise Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4, SIGA-IB, SIGA-IB4 and SIGA-AB4G bases) Note: 1) The SIGA-LED indicator is also approved for use with the SIGA-SB and SIGA-SB4 bases	904b/02
SIGA-HRDI Intelligent A1/A2R Fixed Temperature and Rate of Rise Heat Detector (SIGA-SB, SIGA-SB4, SIGA-RB, SIGA-RB4, SIGA-IB, SIGA-IB4, SIGI-IBS and SIGA-AB4G bases) Note:	904b/03

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

1) The SIGA-LED indicator is also approved for use with the SIGA-SB and SIGA-SB4 bases

LPCB Ref.
No.

Bases:

SIGI-IBS	Isolator base
SIGA-SB	Standard base
SIGA-SB4	Standard base with trim skirt
SIGA-RB	Relay base
SIGA-RB4	Relay base with trim skirt
SIGA-IB	Isolator Base
SIGA-IB4	Isolator base with 4 inch mounting adaptors
SIGA-AB4G	Sounder base
SIGA-AB4GI	Addressable Type A sounder base RoHS model

Accessories:

SIGA-LED	Indicator
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V-GREAT GLOBAL CORPORATION

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Tel: 008613581542023

E-mail: vgreatch@hotmail.com

Certificate No: 1174a-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Smoke detector

Certificated Products

VG-6623	Conventional Optical Smoke Detector (VG-6611 base) <i>Note:</i> 1. Meets the requirements of EN 54-7: 2000 at default sensitivity setting only	LPCB Ref. No. 1174a/01
VG-6627	Addressable Optical Smoke Detector (VG-6617 base) <i>Note:</i> 1. Meets the requirements of EN 54-7:2000 at the following sensitivities: - Mode 0 (High) - Mode 1 (Factory Setting) - Mode 2 - Mode 3 (Low)	1174a/02

Bases

VG-6611	
VG-6617	Addressable mounting base

Certificate No: 1174b-(cl-1) to EN 54-5:2000 + A1:2002

Heat Detector

Certificated Products

VG-6633	Conventional Heat Detector (VG-6611 base) <i>Note:</i> 1. Meets the requirements of EN 54-5: 2000 at class A2R	LPCB Ref. No. 1174b/01
VG-6637	Addressable Heat Detector (VG-6617 base) <i>Note:</i> 1. Meets the requirements of EN 54-5:2000 at class A1R and A2	1174b/02

Bases

VG-6611	
VG-6617	Addressable mounting base

Certificate No: 1174f-(cl-2) to EN 54-5:2000 + A1:2002; EN 54-7:2000+A1:2002+A2:2006; CEA 4021:2003

Multi-Sensor/Multi-Criteria Detectors
Certificated Products

VG-6647

Addressable Smoke and Heat Detector (VG-6617 base)

Notes:

- 1) Meets the requirements of EN 54-5:2000 at Class A1R and A2
- 2) Meets the requirements of EN 54-7:2000 at the following sensitivity settings
 - Smoke Mode 2 and A1R
 - Smoke Mode 2 and A2
 - Smoke Mode 2 (Smoke only), heat disabled

LPCB Ref.
No.
1174f/01

Bases

VG-6617 Addressable mounting base

Videofon Güvenlik Teknolojileri A.S.

Videofon Plaza, Gursel Mah, Kagithane Cad. No. 40, Kagithane, Istanbul 34400, Turkey

Tel: +902123208560

E-mail: alp@videofon.com.tr • Website: www.videofon.com.tr

Certificate No: 512a to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors
Certificated Products

FX-502/FIREMAX

Conventional 2 Wire Photoelectric Smoke Detector (P/N852001 base)

FX-502L/FIREMAX

Conventional 2 Wire Photoelectric Smoke Detector with Remote LED Output (P/N854001 base)

FX-504/FIREMAX

Conventional 4 Wire Photoelectric Smoke Detector (P/N854001 base)

LPCB Ref.
No.
512a/01
512a/02
512a/03

Bases

P/N852001 2-Wire detector base

P/N854001 4-Wire detector base

Certificate No: 512b to EN 54-7:2000 + A1:2002 + A2:2006

Multi-Sensor/Multi-Criteria Detectors
Certificated Products

FX-802/FIREMAX

Conventional 2 Wire Photoelectric Smoke and Heat Detector (P/N852001 base)

FX-804/FIREMAX

Conventional 4 Wire Photoelectric Smoke and Heat Detector (P/N854001 base)

LPCB Ref.
No.
512b/01
512b/03

Bases

P/N854001 4-Wire detector base

P/N852001 2-Wire detector base

Certificate No: 512d to EN 54-7:2000 + A1:2002 + A2:2006

Heat Detectors
Certificated Products

FX-702/FIREMAX

Conventional 2 Wire 24VDC Class A2S Fixed Temperature and Rate-of-rise Heat Detector (P/N852001 base)

FX-704/FIREMAX

Conventional 4 wire 12VDC Class A2S Fixed Temperature and Rate-of-rise Heat Detector (P/N854001 base)

LPCB Ref.
No.
512d/01
512d/05

Bases

P/N854001 4-Wire detector base

P/N852001 2-Wire detector base

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey

Tel: 0090 549 797 70 80

E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426b-(cl-1) to EN 54-5: 2000 + A1: 2002

Certificated Products

VI 200-T Intelligent Addressable Heat Detector (DZ-912 Base)
Notes:
Meets the requirements of EN 54-5 for class A2

LPCB Ref.
No.
1426B/01

Base
DZ-912

Certificate No: 1426c-(cl-1) to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products

VI 200-0 Intelligent Addressable Smoke Detector (DZ-912 Base)
Notes:
Meets the requirements of EN 54-7 for 1 sensitivity setting

LPCB Ref.
No.
1426c/01

Wagner Group GmbH

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E-mail: info@wagner.de • Website: www.wagner.de

Certificate No: 524c to EN 54-20: 2006

Aspirating Smoke Detectors

Certificated Products

TITANUS PRO-SENS

Notes:

- Approval of the detector is conditional upon the following requirements:
 - For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
 - System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.
 - The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.
- Approved detector configurations (Class A, Class B and Class C):
 - TP-1/a (standard version, no bargraph display, 1 alarm, not available for networking)
 - TP-1-F/a (deep freeze version, no bargraph display, 1 alarm, not available for networking)
 - TP-1-SL (silent version, no bargraph display, 1 alarm, not available for networking)
- The approved detector must incorporate one or two of the following detector modules:
 - DM-TP-01-L (standard version, sensitivity of 0.015%/m)
 - DM-TP-01-L-F (deep freeze version, sensitivity of 0.015%/m)
 - DM-TP-10-L (standard version, sensitivity of 0.10%/m)
 - DM-TP-10-L-F (deep freeze version, sensitivity of 0.10%/m)

LPCB Ref.
No.
524c/01

Certificated Products	LPCB Ref. No.
<p>TITANUS PRO-SENS/net</p> <ul style="list-style-type: none"> • DM-TP-50-L (standard version, sensitivity of 0.50%/m) • DM-TP-50-L-F (deep freeze version, sensitivity of 0.50%/m) <p>Notes:</p> <ol style="list-style-type: none"> 1. Approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none"> • For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. • System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1. • The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131. 2. Approved detector configurations (Class A, Class B and Class C): <ul style="list-style-type: none"> • TP-3 (standard version, no bargraph display, 1 alarm, prepared for networking) • TP-3-F (deep freeze version, no bargraph display, 1 alarm, prepared for networking) • TP-3-SL (silent version, no bargraph display, 1 alarm, prepared for networking) • TP-4 (standard version, no bargraph display, 2 alarms, prepared for networking) • TP-4-F (deep freeze version, no bargraph display, 2 alarms, prepared for networking) • TP-4-SL (silent version, no bargraph display, 2 alarms, prepared for networking) • TP-5 (standard version, no bargraph display, 3 alarms, prepared for networking) • TP-5-F (deep freeze version, no bargraph display, 3 alarms, prepared for networking) • TP-5-SL (silent version, no bargraph display, 3 alarms, prepared for networking) 3. The approved detector must incorporate one or two of the following detector modules: <ul style="list-style-type: none"> • DM-TT-01-L (standard version, sensitivity of 0.015%/m) • DM-TT-01-L-F (deep freeze version, sensitivity of 0.015%/m) • DM-TT-10-L (standard version, sensitivity of 0.10%/m) • DM-TT-10-L-F (deep freeze version, sensitivity of 0.10%/m) • DM-TT-50-L (standard version, sensitivity of 0.50%/m) • DM-TT-50-L-F (deep freeze version, sensitivity of 0.50%/m) 	<p>524c/02</p>
<p>TITANUS TOP-SENS</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none"> • For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. • System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1. • The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131. 2. Approved detector configurations (Class A, Class B and Class C): <ul style="list-style-type: none"> • TT-1/a (standard version, bargraph display, 3 alarms, prepared for networking) • TT-1-F/a (deep freeze version, bargraph display, 3 alarms, prepared for networking) • TT-1-SL (silent version, bargraph display, 3 alarms, prepared for networking) 3. The approved detector must incorporate one or two of the following detector modules: <ul style="list-style-type: none"> • DM-TT-01-L (standard version, sensitivity of 0.015%/m) • DM-TT-01-L-F (deep freeze version, sensitivity of 0.015%/m) • DM-TT-10-L (standard version, sensitivity of 0.10%/m) • DM-TT-10-L-F (deep freeze version, sensitivity of 0.10%/m) • DM-TT-50-L (standard version, sensitivity of 0.50%/m) • DM-TT-50-L-F (deep freeze version, sensitivity of 0.50%/m) 	<p>524c/03</p>
<p>TITANUS MICRO-SENS</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Approval of the detector is conditional upon the following requirements: <ul style="list-style-type: none"> • For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be 	<p>524c/04</p>

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products

LPCB Ref. No.

- supplied with power from a power supply conforming to the requirements of EN 54-4.
- System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.
 - The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.
2. Approved detector configurations, sensitivity of 0.10%/m (Class A, Class B and Class C):
- DM-TM-10 (standard version)
 - DM-TM-R-10 (version with ROOM IDENT)
 - DM-TM-B-10 (version with bargraph display)
 - DM-TM-RB-10 (version with ROOM IDENT, bargraph display)
 - DM-TM-Z-10 (version with redundancy fan)
 - DM-TM-ZB-10 (version with redundancy fan, bargraph display)
 - DM-TM-10-F (deep freeze version)
 - DM-TM-B-10-F (version with bargraph display, deep freeze)
 - DM-TMV-10 (version with 2 stages of alarm)
 - DM-TMV-R-10 (version with 2 stages of alarm, ROOM IDENT)
 - DM-TMV-B-10 (version with 2 stages of alarm, bargraph display)
 - DM-TMV-RB-10 (version with 2 stages of alarm, ROOM IDENT, bargraph display)
 - DM-TMV-10-F (version with 2 stages of alarm, deep freeze)
 - DM-TMV-B-10-F (version with 2 stages of alarm, bargraph display, deep freeze)
 - DM-MB-TM-10 (version without fan to be used as detector box)
 - DM-MB-TM-B-10 (version without fan to be used as detector box, bargraph display)
3. Approved detector configurations, sensitivity of 0.50%/m (Class A, Class B and Class C):
- DM-TM-50 (standard version)
 - DM-TM-R-50 (version with ROOM IDENT)
 - DM-TM-B-50 (version with bargraph display)
 - DM-TM-RB-50 (version with ROOM IDENT, bargraph display)
 - DM-TM-Z-50 (version with redundancy fan)
 - DM-TM-ZB-50 (version with redundancy fan, bargraph display)
 - DM-TM-50-F (deep freeze version)
 - DM-TM-B-50-F (version with bargraph display, deep freeze)
 - DM-TMV-50 (version with 2 stages of alarm)
 - DM-TMV-R-50 (version with 2 stages of alarm, ROOM IDENT)
 - DM-TMV-B-50 (version with 2 stages of alarm, bargraph display)
 - DM-TMV-RB-50 (version with 2 stages of alarm, ROOM IDENT, bargraph display)
 - DM-TMV-50-F (version with 2 stages of alarm, deep freeze)
 - DM-TMV-B-50-F (version with 2 stages of alarm, bargraph display, deep freeze)
 - DM-MB-TM-50 (version without fan to be used as detector box)
 - DM-MB-TM-B-50 (version without fan to be used as detector box, bargraph display)

TITANUS RACK-SENS

524c/05

Notes:

1. Approval of the detector is conditional upon the following requirements:
 - For compliance with Clause 5.10 of EN 54-20: 2006, the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
 - System design, installation and commissioning shall be performed in accordance with the manufacturer's installation guide, associated manuals and design software TF-SC-1.
 - The detector shall be installed with sampling pipe conforming to EN 61386-1, to at least Class 1131.
2. Approved detector configurations (Class A, Class B and Class C):
 - TR1-10 (placed in a '1U' housing, sensitivity of 0.10%/m)
 - TR1-50 (placed in a '1U' housing, sensitivity of 0.50%/m)
 - TR2-10 (placed in a '2U' housing, sensitivity of 0.10%/m)
 - TR2-50 (placed in a '2U' housing, sensitivity of 0.50%/m)

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Certificate No: 1163g to EN 54-5:2000 + A1:2002

Heat Detectors

Certificated Products

		LPCB Ref. No.
NB380-H2	2-Wire Conventional Heat Detector (972913 Base) Note: 1. Meets the requirement of Class A1R	1163g/01
NB380-H2L	2-Wire Conventional Heat Detector with Remote LED Output (972914 Base) Note: 1. Meets the requirement of Class A1R	1163g/02
NB380-H4R	4-Wire Conventional Heat Detector with Relay Output (972915 Base) Note: 1. Meets the requirement of Class A1R	1163g/03
NB380F-H2	2-Wire Conventional Heat Detector (LED Flashes when Quiescent) (972913 Base) Note: 1. Meets the requirement of Class A1R	1163g/04
NB380F-H2L	2-Wire Conventional Heat Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base) Note: 1. Meets the requirement of Class A1R	1163g/05
NB380F-H4R	4-Wire Conventional Heat Detector with Relay Output (LED Flashes when Quiescent) (972915 Base) Note: 1. Meets the requirement of Class A1R	1163g/06

Bases

972913	Low profile 100mm diameter base
972914	Low profile 100mm diameter base with remote LED Connection
972915	Low profile 100mm diameter base 4 wire

Certificate No: 1163h to EN 54-7:2000 + A1:2002 + A2:2006

Smoke Detectors

Certificated Products

		LPCB Ref. No.
NB380-S2	2-Wire Conventional Smoke Detector (972913 Base)	1163h/01
NB380-S2L	2-Wire Conventional Smoke Detector with Remote LED Output (972914 Base)	1163h/02
NB380-S4R	4-Wire Conventional Smoke Detector with Relay Output (972915 Base)	1163h/03
NB380F-S2	2-Wire Conventional Smoke Detector (LED Flashes when Quiescent) (972913 Base)	1163h/04
NB380F-S2L	2-Wire Conventional Smoke Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base)	1163h/05
NB380F-S4R	4-Wire Conventional Smoke Detector with Relay Output (LED Flashes when Quiescent) (972915 Base)	1163h/06

Bases

972913	Low profile 100mm diameter base
972914	Low profile 100mm diameter base with remote LED Connection
972915	Low profile 100mm diameter base 4 wire

Certificate No: 1163j to EN 54-5:2000 + A1:2002 & EN 54-7:2000 + A1:2002 + A2:2006

Multi-Sensor/Multi-Criteria Detectors

Certificated Products

		LPCB Ref. No.
NB380-SH2	2-Wire Conventional Smoke and Heat Detector (972913 Base) Note: 1. Meets the requirements of Class A2	1163j/01

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COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
NB380-SH2L	2-Wire Conventional Smoke and Heat Detector with Remote LED Output (972914 Base) Note: 1. Meets the requirements of Class A2	1163j/02
NB380-SH4R	4-Wire Conventional Smoke and Heat Detector with Relay Output (972915 Base) Note: 1. Meets the requirements of Class A2	1163j/03
NB380F-SH2	2-Wire Conventional Smoke and Heat Detector (LED Flashes when Quiescent) (972913 Base) Note: 1. Meets the requirements of Class A2	1163j/04
NB380F-SH2L	2-Wire Conventional Smoke and Heat Detector with Remote LED Output (LED Flashes when Quiescent) (972914 Base) Note: 1. Meets the requirements of Class A2	1163j/05
NB380F-SH4R	4-Wire Conventional Smoke and Heat Detector with Relay Output (LED Flashes when Quiescent) (972915 Base) Note: 1. Meets the requirements of Class A2	1163j/06

Bases	
972913	Low profile 100mm diameter base
972914	Low profile 100mm diameter base with remote LED Connection
972915	Low profile 100mm diameter base 4 wire

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Certificate No: 305e to EN 54-20: 2006

Certificate No: 305d to EN 54-20: 2006

Certificate No: 305g to EN 54-20: 2006

Aspirating Smoke Detectors

Certificated Products

VESDA VLF-250-xx (VLF-250-01NF*) high sensitivity aspirating smoke detector

Incorporating the following ancillary equipment:

- VIC-010 VESDAnet network card
- VIC-020 Multifunction control card
- VIC-030 Multifunction control card
- VRT-V00 Remote VLF display (with 7 relays)
- VRT-W00 Remote VLF display (no relays)
- VRT-500 Remote relay unit (with 7 relays)

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.
3. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07208).
4. Remote display, programmer and relay modules are also approved in a 19 sub rack.
5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).
6. xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.

LPCB Ref. No.
305d/01

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COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
	<p>7. <i>Alternative model number with suffix* as indicated, intended for French market.</i></p> <p>8. <i>When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</i></p>	
VESDA VLF-500-xx (VLF-500-01NF*) high sensitivity aspirating smoke detector	<p>Incorporating the following ancillary equipment:</p> <ul style="list-style-type: none"> - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</i> 2. <i>The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.</i> 3. <i>System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07209).</i> 4. <i>Remote display, programmer and relay modules are also approved in a 19 sub rack.</i> 5. <i>The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</i> 6. <i>xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.</i> 7. <i>Alternative model number with suffix* as indicated, intended for French market.</i> 8. <i>When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</i> 	305d/02
VESDA VLC High sensitivity aspirating smoke detector	<p>Approved configurations:</p> <ul style="list-style-type: none"> - VLC-500 (VLF-50000-NF*) VLC Relays only (RO) version - VLC-505 (VLF-50500-NF*) VLC VESDAnet (VN) version - VLC-400 (VLF-400-NF*) VLC Apollo (AP) version - VLC-700 (801519.F0*) VLC Esser (EB) version - VLC-800 (VLF-800-NF*) VLC Tyco (MX) version <p>Approved remote units with the VLC-505 VESDAnet (VN) version:</p> <ul style="list-style-type: none"> - VRT-J00 Remote VLC display (with 7 relays) - VRT-K00 Remote VLC display (no relays) - VRT-500 Remote relay unit (with 7 relays) <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</i> 2. <i>The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.</i> 3. <i>System design, installation and commissioning shall be performed in accordance with the VESDA VLC product guides (10280 [VLC-500 & VLC-505], 03494 [VLC-400], 09411 [VLC-700], 09515 [VLC-800]).</i> 4. <i>Remote display, programmer and relay modules are also approved in a 19 sub rack.</i> 5. <i>The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</i> 6. <i>Alternative model numbers with suffix* as indicated, intended for French market.</i> 7. <i>When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</i> 	305d/03
VESDA VLP High sensitivity aspirating smoke detector	<p>Approved Configurations:</p> <ul style="list-style-type: none"> VLP-012 (VLP-01200-NF*) VLP detector with Display & Programmer VLP-002 (VLP-00200-NF*) VLP detector with Display VLP-400 (VLP-00000-NF*) VLP detector with Fire/OK LEDs only VLP-401 (VLP-00100-NF*) VLP detector with Programmer & Fire/OK LEDs VLP-100 VLP detector with OEM cover <p>Approved remote units:</p> <ul style="list-style-type: none"> VRT-100 Remote Programmer VRT-200 Remote VLP Display unit (with 7 relays) VRT-300 VESDAnet socket 	305d/04

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COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

VRT-500 Remote Relay unit (with 7 relays)
VRT-600 Remote VLP Display unit (without relays)

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.
2. System design, installation and commissioning shall be performed in accordance with the VESDA VLP product guide (10278).
3. Remote display, programmer and relay modules are also approved in a 19 sub rack.
4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).
5. Alternative model numbers with suffix* as indicated, intended for French market.
6. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.

VESDA VLS High
sensitivity aspirating smoke
detector

Approved Configurations:

VLS-600 (VLS-20000-NF*) VLS with 7 relays and Fire/OK LEDs
VLS-204 (VLS-20400-NF*) VLS with 7 Relays and Display Module
VLS-214 (VLS-21400-NF*) VLS with 7 Relays, Display and Program Module
VLS-700 (VLS-30000-NF*) VLS with 12 relays and Fire/OK LEDs
VLS-304 (VLS-30400-NF*) VLS with 12 Relays and Display Module
VLS-314 (VLS-31400-NF*) VLS with 12 Relays, Display and Program Module
VLS-100 VLS with 7 Relays and OEM cover
VLS-500 VLS with 12 Relays and OEM cover

Approved Remote Units:

VRT-400 Remote Scanner Display with 7 relays
VRT-700 Remote Scanner Display with no relays
VRT-800 Remote Scanner Display with 12 relays
VRT-900 Remote Scanner Relays -12 relays
VRT-E00 Remote Scanner Relays - 7 relays

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.
2. System design, installation and commissioning shall be performed in accordance with the VESDA VLS product guide (10279).
3. Remote display, programmer and relay modules are also approved in a 19 sub rack.
4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).
5. Alternative model numbers with suffix* as indicated, intended for French market.
6. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed

VESDA VLF-250-xx (VLF-
250-01NF*) high sensitivity
aspirating smoke detector

Incorporating the following ancillary equipment:

- VIC-010 VESDAnet network card
- VIC-020 Multifunction control card
- VIC-030 Multifunction control card
- VRT-V00 Remote VLF display (with 7 relays)
- VRT-W00 Remote VLF display (no relays)
- VRT-500 Remote relay unit (with 7 relays)

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.
2. System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07208).
3. Remote display, programmer and relay modules are also approved in a 19 sub rack.
4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate

305d/05

305d/06

PART 1: SECTION 4.1
COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
VESDA VLF-500-xx (VLF-500-01NF*) high sensitivity aspirating smoke detector	<p style="text-align: center;"><i>VESDA application guide (10856 or 17785).</i></p> <p>6. <i>xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.</i></p> <p>7. <i>Alternative model number with suffix* as indicated, intended for French market.</i></p> <p>8. <i>When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</i></p> <p>Incorporating the following ancillary equipment:</p> <ul style="list-style-type: none"> - VIC-010 VESDAnet network card - VIC-020 Multifunction control card - VIC-030 Multifunction control card - VRT-V00 Remote VLF display (with 7 relays) - VRT-W00 Remote VLF display (no relays) - VRT-500 Remote relay unit (with 7 relays) <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</i> 2. <i>The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.</i> 3. <i>System design, installation and commissioning shall be performed in accordance with the VESDA VLF product guide (07209).</i> 4. <i>Remote display, programmer and relay modules are also approved in a 19 sub rack.</i> 5. <i>The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</i> 6. <i>xx denotes alternative language version where xx (range 00 to 99) designates the language of the product labels.</i> 7. <i>Alternative model number with suffix* as indicated, intended for French market.</i> 8. <i>When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</i> 	305d/07
VESDA VLC High sensitivity aspirating smoke detector	<p>Approved configurations:</p> <ul style="list-style-type: none"> - VLC-500 (VLF-50000-NF*) VLC Relays only (RO) version - VLC-505 (VLF-50500-NF*) VLC VESDAnet (VN) version - VLC-400 (VLF-400-NF*) VLC Apollo (AP) version - VLC-700 (801519.F0*) VLC Esser (EB) version - VLC-800 (VLF-800-NF*) VLC Tyco (MX) version <p>Approved remote units with the VLC-505 VESDAnet (VN) version:</p> <ul style="list-style-type: none"> - VRT-J00 Remote VLC display (with 7 relays) - VRT-K00 Remote VLC display (no relays) - VRT-500 Remote relay unit (with 7 relays) <p>Notes:</p> <ol style="list-style-type: none"> 1. <i>For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</i> 2. <i>The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.</i> 3. <i>System design, installation and commissioning shall be performed in accordance with the VESDA VLC product guides (10280 [VLC-500 & VLC-505], 03494 [VLC-400], 09411 [VLC-700], 09515 [VLC-800]).</i> 4. <i>Remote display, programmer and relay modules are also approved in a 19 sub rack.</i> 5. <i>The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</i> 6. <i>Alternative model numbers with suffix* as indicated, intended for French market.</i> 7. <i>When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</i> 	305d/08
VESDA VLP High sensitivity aspirating smoke detector	<p>Approved Configurations:</p> <ul style="list-style-type: none"> VLP-012 (VLP-01200-NF*) VLP detector with Display & Programmer VLP-002 (VLP-00200-NF*) VLP detector with Display VLP-400 (VLP-00000-NF*) VLP detector with Fire/OK LEDs only VLP-401 (VLP-00100-NF*) VLP detector with Programmer & Fire/OK LEDs VLP-100 VLP detector with OEM cover <p>Approved remote units:</p>	305d/09

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COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

VRT-100 Remote Programmer
VRT-200 Remote VLP Display unit (with 7 relays)
VRT-300 VESDA net socket
VRT-500 Remote Relay unit (with 7 relays)
VRT-600 Remote VLP Display unit (without relays)

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.
3. System design, installation and commissioning shall be performed in accordance with the VESDA VLP product guide (10278).
4. Remote display, programmer and relay modules are also approved in a 19 sub rack.
5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).
6. Alternative model numbers with suffix* as indicated, intended for French market.
7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.

VESDA VLS High
sensitivity aspirating smoke
detector

Approved Configurations:

VLS-600 (VLS-20000-NF*) VLS with 7 relays and Fire/OK LEDs
VLS-204 (VLS-20400-NF*) VLS with 7 Relays and Display Module
VLS-214 (VLS-21400-NF*) VLS with 7 Relays, Display and Program Module
VLS-700 (VLS-30000-NF*) VLS with 12 relays and Fire/OK LEDs
VLS-304 (VLS-30400-NF*) VLS with 12 Relays and Display Module
VLS-314 (VLS-31400-NF*) VLS with 12 Relays, Display and Program Module
VLS-100 VLS with 7 Relays and OEM cover
VLS-500 VLS with 12 Relays and OEM cover

Approved Remote Units:

VRT-400 Remote Scanner Display with 7 relays
VRT-700 Remote Scanner Display with no relays
VRT-800 Remote Scanner Display with 12 relays
VRT-900 Remote Scanner Relays -12 relays
VRT-E00 Remote Scanner Relays - 7 relays

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.
2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.
3. System design, installation and commissioning shall be performed in accordance with the VESDA VLS product guide (10279).
4. Remote display, programmer and relay modules are also approved in a 19 sub rack.
5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).
6. Alternative model numbers with suffix* as indicated, intended for French market.
7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.

XCC-010 (XCC-01000-NF)

Xtralis Class C aspirating smoke detector

305e/01

Notes:

1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.
2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-010 product guide (Document 14159).
3. The device is approved for sensitivity Class C.
4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).
5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.
6. XCC-01000-NF alternative model number intended for French market.

XCC-010 (XCC-01000-NF)

Xtralis Class C aspirating smoke detector

305e/02

Notes:

Certificated Products

**LPCB Ref.
No.**

XCC-011 (XCC-01100-NF)	<p>1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.</p> <p>2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-010 product guide (Document 14159).</p> <p>3. The device is approved for sensitivity Class C.</p> <p>4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</p> <p>5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</p> <p>6. XCC-01000-NF alternative model number intended for French market.</p> <p>Xtralis Class C aspirating smoke detector</p> <p>Notes:</p>	305e/03
XCC-011 (XCC-01100-NF)	<p>1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming with the requirements of EN 54-4.</p> <p>2. System design, installation and commissioning shall be performed in accordance with the Xtralis Class C XCC-011 product guide (Document 19137).</p> <p>3. The device is approved for sensitivity Class C.</p> <p>4. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</p> <p>5. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</p> <p>6. XCC-01100-NF alternative model number intended for French market.</p> <p>Xtralis Class C aspirating smoke detector</p> <p>Notes:</p>	305e/04
VLI-880	<p>6. XCC-01100-NF alternative model number intended for French market.</p> <p>(VLI-88000-NF) VESDA Laser Industrial aspirating smoke detector</p> <p>Incorporating the following ancillary equipment:</p> <ul style="list-style-type: none"> - VRT-Q00 Remote VLI display (with 7 relays) - VRT-T00 Remote VLI display (no relays) - VRT-500 Remote relay unit (with 7 relays) <p>Notes:</p>	305g/01
VLI-885	<p>1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</p> <p>2. The device is approved for sensitivity Classes A, B and C.</p> <p>The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.</p> <p>3. System design, installation and commissioning shall be performed in accordance with the VESDA VLI product guide (18500).</p> <p>4. Remote display, programmer and relay modules are also approved in a 19 sub rack.</p> <p>5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</p> <p>6. VLI-88000-NF is the alternative model number intended for French market.</p> <p>7. When installing pipework systems containing in-line components, guidance from the 18336 "Open-flow In-Line Components" document shall be sought and the recommendations followed.</p> <p>(VLI-88500-NF) VESDA Laser Industrial aspirating smoke detector with VESDAnet card</p> <p>Incorporating the following ancillary equipment:</p> <ul style="list-style-type: none"> - VRT-Q00 Remote VLI display (with 7 relays) - VRT-T00 Remote VLI display (no relays) - VRT-500 Remote relay unit (with 7 relays) <p>Notes:</p>	305g/02

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COMMERCIAL DETECTORS

Certificated Products

LPCB Ref.
No.

	<p>1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</p> <p>2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity must be determined using ASPIRE2.</p> <p>3. System design, installation and commissioning shall be performed in accordance with the VESDA VLI product guide (18500).</p> <p>4. Remote display, programmer and relay modules are also approved in a 19 sub rack.</p> <p>5. The detector is also approved when used with in-line filter models, E700-FILASSY and VSP-850 in accordance with the appropriate VESDA application guide (10856 or 17785).</p> <p>6. VLI-88500-NF alternative model number intended for French market.</p> <p>7. When installing pipework systems containing in-line components, guidance from the 18336 "Open-flow In-Line Components" document shall be sought and the recommendations followed.</p>	
VLQ-100 (VLQ-10000-NF)	<p>VESDA VLQ Aspirating Smoke Detector</p> <p>Notes:</p> <p>1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</p> <p>2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity is provided in the VESDA VLQ Product Guide (26104).</p> <p>3. System design, installation and commissioning shall be performed in accordance with the VESDA VLQ Product Guide (26104).</p> <p>4. The detector is also approved when used with in-line filter model, VSP-850 in accordance with the VESDA application guide (17785).</p> <p>5. The detector is also approved when used with the ECO gas detection module when fitted with the ECO-LQ Adaptor.</p> <p>6. VLQ-10000-NF is the alternative model number intended for French market (Product Guide 26746).</p> <p>7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</p>	305g/03
ILQ-100 (ILQ-10000-NF)	<p>ICAM ILQ Aspirating Smoke Detector</p> <p>Notes:</p> <p>1. For compliance with clause 5.10 of EN 54-20 the detector shall be supplied with power from a power supply conforming to the requirements of EN 54-4.</p> <p>2. The device is approved for sensitivity Classes A, B and C. The Class of any pipe/hole configuration and detector sensitivity is provided in the ICAM ILQ Product Guide (26105).</p> <p>3. System design, installation and commissioning shall be performed in accordance with the ICAM ILQ Product Guide (26105).</p> <p>4. The detector is also approved when used with in-line filter model, VSP-850 in accordance with the application guide (17785).</p> <p>5. The detector is also approved when used with the ECO gas detection module when fitted with the ECO-LQ Adaptor.</p> <p>6. ILQ-10000-NF is the alternative model number intended for French market (Product Guide 26749).</p> <p>7. When installing pipework systems containing in-line components, guidance from the 18336 "Xtralis Open-flow In-Line Components" document shall be sought and the recommendations followed.</p>	305g/04

Accessories:

E700-FILASSY	In line filter
VSP-850	In line filter

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

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Certificate No: 1450c to EN54-7:2000+ A1: 2002 + A2: 2006

Certificated Products

JTY-GM-TC5161 Addressable Photoelectric Smoke Detector (TCDZ5000 Base)

LPCB Ref. No.
1450c/01

Base

TCDZ5000 – Standard Base

Certificate No: 1450d to EN 54-5:2000+ A1; 2002

Certificated Products

JTW-ZOM-TC5162 Addressable Class A2R Rate of Rise and Fixed Temperature Heat Detector (TCDZ5000 Base)

LPCB Ref. No.
1450d/01

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghasan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330n to EN54-7: 2000 + A1: 2002 + A2: 2006

Point Smoke Detectors

Certificated Products

MKII-OP Fyreeye II Conventional optical smoke detector
(FE-CB/D base, FE-CB/S base and FE-CB base)
Note:
1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting
Range:0.08%dB~ 0.12%dB

MKII-AOP Fyreeye II Addressable optical smoke detector
(MKII-CB/D base and MKII-CB base)
Note:
1) Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting
Range:0.09%dB~ 0.11%dB

LPCB Ref. No.
330n/01

330n/02

Bases:

80-050 FE CB Common mounting base
80-052 FE DB Diode mounting base
80-054 FE RB Relay mounting base
80-080 FEA RB Addressable relay mounting base
80-090 FE IB Negative switching isolating base
FE-CB/D deep base
FE-CB/S shallow base
FE-CB standard base

Certificate No: 330q to EN54-5: 2000 + A1: 2002

Point Heat Detectors

Certificated Products

MKII-HF Fyreeye II Conventional A2S heat detector
(FE-CB/D base, FE-CB/S base and FE-CB base)
Note:
1. Meets the requirements of EN 54-5:2000 at Class A2S

MKII-HR Fyreeye II Conventional A2R heat detector
(FE-CB/D base, FE-CB/S base and FE-CB base)
Note:
1. Meets the requirements of EN 54-5:2000 at Class A2R

MKII-AHF Fyreeye II Addressable A2S heat detector
(MKII-CB/D base and MKII-CB base)
Note:
1) Meets the requirements of EN 54-5:2000 at Class A2S

MKII-AHR Fyreeye II Addressable A1R heat detector

LPCB Ref. No.
330q/01

330q/02

330q/03

330q/04

PART 1: SECTION 4.1

COMMERCIAL DETECTORS

Certificated Products		LPCB Ref. No.
	MKII-CB/D base and MKII-CB base) Note: 1) Meets the requirements of EN 54-5:2000 at Class A1R	
MKII-AHF/CS90	Fyreye MKII Addressable Fixed Heat Detector 90 Degrees (MKII-CB/D Base and MKII-CB Base) Note: 1. Meets the requirements of EN 54-5:2000 at Class CS	330q/05
MKII-HF/CS90	Fyreye MKII Conventional Fixed Heat Detector 90 Degrees (MKII-CB/D Base and MKII-CB Base) Note: 1. Meets the requirements of EN 54-5:2000 at Class CS	330q/06

Bases:

80-050 FE CB Common mounting base
80-052 FE DB Diode mounting base
80-054 FE RB Relay mounting base
80-080 FEA RB Addressable relay mounting base
80-090 FE IB Negative switching isolating base
FE-CB/D deep base
FE-CB/S shallow base
FE-CB standard base
MKII-CB/D Deep base
MKII-CB Shallow base

Certificate No: 330p to EN54-5: 2000 + A1: 2002, EN54-7: 2000 + A1: 2002 + A2: 2006, CEA 4021: 2003

Multi-Sensor/Multi-Criteria Detectors

Certificated Products		LPCB Ref. No.
MKII-OH	Fyreye II Conventional optical and heat detector (FE-CB/D base, FE-CB/S base and FE-CB base) Note: 1. Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting Range:0.08%dB~ 0.12%dB 2. Meets the requirements of EN 54-5:2000 at Class A2	330p/01
MKII-AOH	Fyreye II Addressable optical and heat detector (MKII-CB/D base and MKII-CB base) Notes: 1) Meets the requirements of EN 54-7:2000 at Smoke Sensitivity setting Range:0.09%dB~ 0.12%dB 2) Meets the requirements of EN 54-5:2000 at Class A1	330p/02

Bases

FE-CB/D deep base
FE-CB/S shallow base
FE-CB standard base

Zhongshan Guta Fire Equipment Technology Co., Ltd

4/F 10# Xingye Road,, Huojo District, Zhongshan City, Guangdong 528400, China

Tel: 8613828765759

E-mail: strongwang@asenware.com • Website: www.guta-fire.com

Certificate No: 1395a to EN 54-7:2000 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
AW-CSD381	Conventional Photo-electronic Smoke Detector (AW-BS01) Meets the requirements of EN 54-7 for 1 sensitivity setting	1395a/01

Base
AW-BS01

Certificate No: 1395b to EN 54-5: 2000 + A1: 2002

Certificated Products

AW-CTD382 Conventional Rate of Rise Heat Detector
Notes:
Meets the requirements of EN 54-5 for Class A2R

**LPCB Ref.
No.**
1395b/01

AW-BS01 - base

Certificate No: 1330a-(cl-7) to EN 54-12: 2015

Certificated Products

AW-BK901 Conventional Reflective Beam Detector (Asenware)
Notes:
1. *Meets the requirements of EN 54-12: 2015 at the following sensitivity settings:*
- *Level 1: 2.6 dB High sensitivity*
- *Level 2: 3.8 dB Medium sensitivity*
- *Level 3: 5.8 dB Low sensitivity*

2. *Suitable for use at the following separation ranges:*
- *Span 1: 8 to 20 meters Short Path (1 x mirror reflector required)*
- *Span 2: 20 to 40 meters Short Path (1 x mirror reflector required)*
- *Span 3: 40 to 70 meters Normal Path (4 x mirror reflector required)*
- *Span 4: 70 to 100 meters Long Path (4 x mirror reflector required)*

**LPCB Ref.
No.**
1330a/01

Mounting Bracket
AW-BK901-R 1 x Mirror Reflector
AW-BK901-R 4 x Mirror Reflector

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Statistics show that Government initiatives, which have increased the amount of self-contained smoke alarms fitted in domestic dwellings, have had a significant impact in reducing the amount of deaths and injuries caused by fire in the UK.

In Section 1: Fire detection and fire alarm systems of the Building Regulations 2010, Document B1 Fire Safety in Dwellings it states that “All new dwelling houses shall be provided with a fire detection and fire alarm system in accordance with the relevant recommendations of BS 5839-6: 2004 to at least a Grade D, Category LD3 standard”

BS 5839-6: 2004 Grade D requires a system of one or more mains-powered smoke alarms each with an integral standby supply (i.e. battery back-up). The system may in addition incorporate one or more mains powered heat alarms, each with an integral standby supply.

LPCB's list of approved products in this section is intended to help you select equipment that complies with these regulatory requirements. The initial approval and continued approval processes of these types of detectors are outlined in scheme document SD078.

Products listed in this section have been approved to:

- BS 5446-1: 2000 *Fire detection and fire alarm devices for dwellings Part 1 Specification for smoke alarms*
- BS 5446-2: 2003 *Fire detection and fire alarm devices for dwellings Part 2 Specification for heat alarms*
- BS 5446-3: 2005 *Specification for smoke alarm kits for deaf and hard of hearing people*
- EN 14604: 2005 *Smoke alarm devices*
- EN 50291: 2001 *Electrical apparatus for the detection of Carbon monoxide in domestic premises - Test method and performance requirements*
- EN 50291-1: 2010 *Electrical apparatus for the detection of Carbon monoxide in domestic premises - Test method and performance requirements*
- EN 50291-2: 2010 *Electrical apparatus for the detection of Carbon monoxide in domestic premises - Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft-Additional test method and performance requirements.*
- LPS1282: Issue 1 *Requirements and testing procedures for combined domestic smoke and carbon monoxide detectors.*

For domestic applications, care needs to be taken over the correct choice of the type of detector, its siting and the condition of batteries in order to maintain the alarm in accordance with the manufacturer's requirements.

Further guidance is available from LPCB if required.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Note:

1. EN 14604: 2005 supersedes BS 5446-1: 2000 which was withdrawn in July 2008. Information concerning the date of withdrawal of conflicting standards in the foreword to EN 14604: 2005 is incorrect. The correct data is given in the Foreword to the UK version of BS EN 14604: 2005 and gives the date of withdrawal of BS 5446:1: 2000 as July 2008. However, EN 14604: 2005 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 1 August 2008. It is therefore recommended that detectors are certificated to EN 14604: 2005 as soon as possible.
2. EN 50291-1: 2010 supersedes EN 50291: 2001. Information concerning the date of withdrawal of conflicting national standard is 15th April 2013 as stated in the forward of EN 50291-1: 2010.

4 Fire International ApS

Sadelmagervej 27, Vejle DK7100, Denmark
Tel: +4520445168
E-mail: info@4fire-int.com • Website: www.4fire-int.com

Certificate No: 1275c-(cl-1) to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products

		LPCB Ref. No.
SMD18-01	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Pairdeer Lithium CR123A 3V - HCB Primary Lithium CR17355/CR123A - Energizer123 (EL123AP)	1275c/01

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates
Tel: +971 5 0868 4543 • Fax: +971 6535 9220
E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506f-(cl-1) to EN 14604:2005
Certificate No: 1529a-(cl-1) to EN 14604:2005

Certificated Products

		LPCB Ref. No.
205-004	Omex Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR123A	1529a/03
205-005	Omex Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR123A	1529a/04
205-015	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR17450	1529a/06
OM-BS9	Single Station Smoke Detector	506f/01

Ambest Electronics (Ningbo) Co Ltd T/A Numens

55 Yunhui Road, Yingzhou District, Ningbo, Zhejiang 315137, China
Tel: +86 574 82817218
E-mail: allen.cheng@numens.com

Certificate No: 1529a to EN 14604:2005

Certificated Products

		LPCB Ref. No.
205-001	Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Smoke Alarm Notes:	1529a/01

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products		LPCB Ref. No.
205-002	1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A Smoke Alarm, 3V, User Replaceable Lithium Battery Wireless Interconnect Notes:	1529a/02
205-004	1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Smoke Alarm Notes:	1529a/03
205-005	1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes:	1529a/04
205-014	1. This smoke alarm uses a replaceable battery 2. Battery types approved with this domestic smoke alarm - Lithium Huiderui CR123A Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes:	1529a/05
205-015	1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderui CR17450 Smoke Alarm, Battery Operated 3V, Non-Replaceable 10-year Lithium Battery, Wireless Interconnect Notes:	1529a/06

Castorama France

BP 101, 59175 Templemars, , France

Tel: 0 810 104 104

Website: <http://www.castorama.fr/>

Certificate No: 904a to EN 1604: 2005/AC:2008

Certificated Products		LPCB Ref. No.
639707 (Single unit per pack SM2I)	Replaceable Battery Operated Photoelectric Smoke Alarm incorporating Alarm Silence Feature Note: <i>Battery types approved with this domestic smoke alarm:</i> 9V DC Carbon Zinc Batteries: <ul style="list-style-type: none">• Eveready: 1222• Gold Peak: GP1604P, GP1604S 9V DC Alkaline Batteries: <ul style="list-style-type: none">• Gold Peak: GP1604A• Energizer: 522• Panasonic: 6AM6, 6AM-6, 6AM-6PI, 6AM6X, 6LR61 (GA) 9V DC Lithium Batteries: <ul style="list-style-type: none">• Ultralife: U9VL-J-P• Marsell: CR9V• FDK: CP-V9JU	904a/10
639708 (Twin unit per pack SM2I)	Replaceable Battery Operated Photoelectric Smoke Alarm incorporating Alarm Silence Feature Note: <i>Battery types approved with this domestic smoke alarm:</i> 9V DC Carbon Zinc Batteries: <ul style="list-style-type: none">• Eveready: 1222• Gold Peak: GP1604P, GP1604S 9V DC Alkaline Batteries: <ul style="list-style-type: none">• Gold Peak: GP1604A• Energizer: 522• Panasonic: 6AM6, 6AM-6, 6AM-6PI, 6AM6X, 6LR61 (GA)	904a/10

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products

LPCB Ref.
No.

- 9V DC Lithium Batteries:
- *Ultralife: U9VL-J-P*
 - *Marsell: CR9V*
 - *FDK: CP-V9JU*

Demco Industries Sdn. Bhd.

Lot 3928, Jalan Keretapi Lama, Off Jalan Kapar 5 ½ Miles, Klang, Selangor Darul Ehsan 42100, Malaysia

Tel: +60 3 3290 3333 • Fax: +60 3 3290 2288

E-mail: sales@demcoalarm.com • Website: www.demcoalarm.com

Certificate No: 1471a-(cl-2) to EN 14604: 2005/ AC:2008

Certificated Products

LPCB Ref.
No.

D-243-4 Battery Operated Photoelectric Smoke Alarm (Replaceable Battery)

1471a/01

Notes:

1. Battery types approved with this domestic smoke alarm:

- (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd
- (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd
- (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd
- (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd
- (e). 522 - 9V (Alkaline) Energizer Holdings
- (f). MN1604 - 9V (Alkaline) Duracell Incorporation
- (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.
- (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd
- (i). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd

D-243-5 Battery Operated Photoelectric Smoke Alarm (Replaceable Battery)

1471a/02

Notes:

1. Battery types approved with this domestic smoke alarm:

- (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd
- (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd
- (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd
- (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd
- (e). 522 - 9V (Alkaline) Energizer Holdings
- (f). MN1604 - 9V (Alkaline) Duracell Incorporation
- (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.
- (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd
- (i). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd

D-243-6 Battery Operated Photoelectric Smoke Alarm (Replaceable Battery)

1471a/03

Notes:

1. Battery types approved with this domestic smoke alarm:

- (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd
- (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd
- (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd
- (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd
- (e). 522 - 9V (Alkaline) Energizer Holdings
- (f). MN1604 - 9V (Alkaline) Duracell Incorporation
- (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd.
- (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd
- (i). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Digital Security Controls, a Division of Tyco Safety Products Canada Ltd

3301 Langstaff Road, Concord, ON L4K 4L2, Canada

Tel: (001) 905 760 3000 • Fax: (001) 905 760 3020

E-mail: dnita@tycoint.com • Website: www.dsc.com

Certificate No: 1018b to EN 50291-1:2010 + A1:2012

Smoke Alarms

Certificated Products

		LPCB Ref. No.
DSC PG4913	Type A Battery Operated, Wireless, Carbon Monoxide Alarm Notes: 1. Battery type approved with this Carbon Monoxide alarm - Alkaline battery, 9V Energizer Alkaline #552 2. The wireless functionality is not included within the scope of the approval. 3. Only approved for use in EN mode.	1018b/01
DSC PG8913	Type A Battery Operated, Wireless, Carbon Monoxide Alarm Notes: 1. Battery type approved with this Carbon Monoxide alarm - Alkaline battery, 9V Energizer Alkaline #552 2. The wireless functionality is not included within the scope of the approval. 3. Only approved for use in EN mode.	1018b/02

Eltrato-Michael Slabosz

Munchener Str. 73, Essen 45145, Germany

Tel: +49-201-26980150

E-mail: einkauf@eltrato.de

Certificate No: 1138b-(cl-4) to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products

		LPCB Ref. No.
SRM01	Ten Year Battery Operated Photoelectric Smoke Alarm Notes: 1. This smoke alarm uses a non-replaceable battery. 2. The only battery types approved with this domestic smoke alarm are - CR17335 CR123A, 3V DC manufactured by HCB Battery Co., Ltd	1138b/02

ESG Eurosonic Group Ltd

11 Sherborne Street, Manchester, Manchester M3 1JS, United Kingdom

Tel: 0161 831 7879

E-mail: eurosonic@europasonic.com

Certificate No: 1275b-(cl-3) to EN 50291-1: 2010+A1:2012

Carbon Monoxide Alarm

Certificated Products

		LPCB Ref. No.
ELA1160	Battery Operated Type B Carbon Monoxide Alarm (branded PIFCO) Note: 1. Battery types approved with this carbon monoxide alarm: LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd	1275b/01

Everday Technology Co. Limited

No.,95., Sec. 2., Ligong 1 St. Road., Letzer Industrial Park, Yilan County 26841, Taiwan ROC

Tel: +886 3 990 6099 • Fax: +862 3 990 6029

E-mail: alex.hsieh@everday.com • Website: www.everday.com

Certificate No: 512m to EN 50291-1:2010 + A1:2012

Carbon Monoxide Alarms**Certificated Products**

		LPCB Ref. No.
M333	Type B Battery Operated Carbon Monoxide Alarm without Drain Holes (Base Mounting Plate) Note: 1. Battery types approved with this carbon monoxide alarm - Energizer # E91 Alkaline battery - Energizer # L91 Lithium battery - GP # LR6 Lithium battery	512m/01
M333I	Type A Battery Operated Carbon Monoxide Alarm with Interconnection Function without Drain Holes (Base Mounting Plate) Note: 1. Battery types approved with this carbon monoxide alarm - Energizer # E91 Alkaline battery - Energizer # L91 Lithium battery - GP # LR6 Lithium battery	512m/02
M333RL	Type A Battery Operated Carbon Monoxide Alarm with Relay Output without Drain Holes (Base Mounting Plate) Note: 1. Battery types approved with this carbon monoxide alarm - Energizer # E91 Alkaline battery - Energizer # L91 Lithium battery - GP # LR6 Lithium battery	512m/03

Base:

Base mounting plate

FireAngel Safety Technology Ltd

Vanguard Centre, Sir William Lyons Road, Coventry CV4 7EZ, United Kingdom

Tel: +44 (0)2476 323232 • Fax: +44 (0)2476 693610

E-mail: Info@fireangeltech.com • Website: www.fireangeltech.com

Certificate No: 651d to EN 14604:2005/AC:2008

Smoke Alarms**Certificated Products**

		LPCB Ref. No.
ST-630-XX	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm Note: 1. Battery types approved with this smoke alarm: • CR17335/T1 (EVE) • CR123AP-Tag (Hao Cheng) • Panasonic 3V CR-2/3AZ	651d/11
WST- 630-XX	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm - with RF Transceiver Module Notes: 1. The RF transmitter module is not covered within the scope of this approval 2. Battery types approved with this smoke alarm: - CR17335/T1 for alarm (EVE) - CR123AP-Tag for alarm (Hao Cheng) - Panasonic 3V CR-2/3AZ for alarm only	651d/12
WST-AE630-XX	AngelEye Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke	651d/12

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products		LPCB Ref. No.
	Alarm - with RF Transceiver Module	
	Notes:	
	1. The RF transmitter module is not covered within the scope of this approval	
	2. Battery types approved with this smoke alarm:	
	- CR17335/T1 for alarm (EVE)	
	- CR123AP-Tag for alarm (Hao Cheng)	
	- Panasonic 3V CR-2/3AZ for alarm only	
ST-632	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm	651d/13
	Note:	
	1. Battery types approved with this smoke alarm:	
	- CR17335/T1 (EVE)	
	- CR123AP-Tag (Hao Cheng)	
	- Panasonic 3V CR-2/3AZ	
ST-632-DE	FireAngel Thermoptek Battery Operated Thermally Enhanced Photoelectric Smoke Alarm	651d/13
	Note:	
	1. Battery types approved with this smoke alarm:	
	- CR17335/T1 (EVE)	
	- CR123AP-Tag (Hao Cheng)	
	- Panasonic 3V CR-2/3AZ	

Additional Information

XXX, denotes Country and Language variants

Suffix	Description
Blank	UK variant
DE	Germany variant
FR	France variant
NO	Norway variant
NL	Netherlands variant
FI	Finland variant
ES	Spain variant
BE	Belgium variant
SE	Sweden variant
AT	Austria variant
IT	Italy variant
DK	Denmark variant
EU	Generic European variant
BNL	Dual-language variant for Belgium and the Netherlands (Dutch and French language)
NEU	Northern Europe variant
SEU	Southern Europe variant
CEU	Central Europe variant
EEU	Eastern Europe variant
INT	International variant
PL	Poland variant
SC	Scandinavia variant
T	Trade variant
R	Retail variant
P	Panasonic variant
V	VDS variant

Fireblitz Extinguisher Ltd

Units 15/17 Manford Industrial Estate, Manor Road, Erith, Kent DA8 2AJ, United Kingdom

Tel: +44 (0)1322 342238 • Fax: +44 (0)1322 331532

E-mail: sales@fireblitz.co.uk • Website: www.fireblitz.co.uk

Certificate No: 971a-(cl-2) to EN 14604: 2005

Smoke Alarms

Certificated Products		LPCB Ref. No.
FireHawk FHB10	10 year batteryphotoelectric smoke alarm	971a/01
FireHawk FHB10i	10 year batteryphotoelectric smoke alarm with interlink	971a/02

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products

		LPCB Ref. No.
FireHawk FH250BB	Mains powered operated photoelectric smoke alarm with primary back-up battery	971a/03
FireHawk FH250RB	Mains powered operated photoelectric smoke alarm with rechargeable lithium back-up battery	971a/04
FireHawk FH250LB	Mains powered operated photoelectric smoke alarm with longlife lithium back-up battery	971a/05

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom

Tel: 01253 699500 • Fax: 01253 699550

E-mail: info@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 971a-(cl-5) to EN14604: 2005

Smoke Alarms

Certificated Products

		LPCB Ref. No.
FRAOMB	Mains powered operated photoelectric smoke alarm with primary back-up battery	971a/09
FRAOMBL	Mains powered operated photoelectric smoke alarm with rechargeable lithium back-up battery	971a/10

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom

Tel: 00447708000050

E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1529a-(cl-2) to EN 14604:2005

Smoke Alarms

Certificated Products

		LPCB Ref. No.
FRN 205-01	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR123A	1529a/01
FRN 205-02	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR123A	1529a/02
FRN 205-04	Smoke Alarm, Battery Operated 3V, Non-Replaceable 10 Year Lithium Battery Notes: 1.This smoke alarm uses a non-replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR123A	1529a/03
FRN 205-05	Smoke Alarm, 3V, User Replaceable Lithium Battery, Wireless Interconnect Notes: 1.This smoke alarm uses a replaceable battery 2.Battery types approved with this domestic smoke alarm - Lithium Huiderei CR123A	1529a/04

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Guangdong Isafenest Co., Ltd

Rm402, Building 7, Tianfulai II, No 37 Changbao West Road,, Ronggui, Shunde, Foshan City, Guangdong 528305, China

Tel: +86-757-29382335 • Fax: 0757-29293200

E-mail: scarlett.shun@letmesmarthome.com

Certificate No: 1471a to EN 14604:2005

Domestic Alarms Certificated Products

		LPCB Ref. No.
LZ-1901	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 - 9V (Alkaline) Energizer Holdings (f). MN1604 - 9V (Alkaline) Duracell Incorporation (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/01
LZ-1902	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 - 9V (Alkaline) Energizer Holdings (f). MN1604 - 9V (Alkaline) Duracell Incorporation (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/02
LZ-1903	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). 6F22 - 9V (Carbon-Zinc) Foshan Zhaoneng Battery Industrial Co.Ltd (b). 6LR61 - 9V (Alkaline) Foshan Zhaoneng Battery Industrial Co.Ltd (c). 6F22 - 9V (Carbon-Zinc) Zhongyin (Ningbo) Battery Co. Ltd (d). 6LR61 - 9V (Alkaline) Zhongyin (Ningbo) Battery Co. Ltd (e). 522 - 9V (Alkaline) Energizer Holdings (f). MN1604 - 9V (Alkaline) Duracell Incorporation (g). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (h). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries (Holdings) Ltd (i). RayMax 6LR61 Zhejiang Mustang Battery Co., Ltd	1471a/03
LZ-1921	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co.Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/04
LZ-1922	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co. Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/05

Hesdo BV

Aziëlaan 12, 's-Hertogenbosch 5232BA, The Netherlands

Tel: +31 7307506250

E-mail: MT@hesdo.nl • Website: www.Alecto.nl

Certificate No: 1471a-(cl-4) to EN 14604:2005 / AC: 2008

Smoke Alarms**Certificated Products**

		LPCB Ref. No.
RM-61	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). MN1604 - 9V (Alkaline) Duracell Incorporation (b). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (c). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd	1471a/03
SA-16	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). MN1604 - 9V (Alkaline) Duracell Incorporation (b). GP1604A - 9V (Alkaline) Gold Peak Industries(Holdings) Ltd. (c). PP1604E - 9V (Carbon-Zinc) Gold Peak Industries(Holdings) Ltd	1471a/03
RM-012	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co.Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/04
SA-210	Battery Operated Photoelectric Smoke Alarm (10 Year Irreplaceable Battery) Notes: 1. Battery types approved with this domestic smoke alarm: (a). CR123A -3V, (1500mAh- Lithium-Manganese Dioxide) By Guangzhou Great Power Energy & Technology Co.Ltd. (b). CR123A -3V, (1500mAh- Pairdeer Lithium-Manganese Dioxide) By Zhongyin (Ningbo) Battery Co., Ltd.	1471a/04

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC

Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506f to EN 14604:2005

Certificated Products

		LPCB Ref. No.
NQ9S	Single Station Smoke Detector	506f/01

IKEA of Sweden AB

Tulpänvagen 8, Box 702, Älmhult SE 34381, Sweden

Tel: +46 476 81000

E-mail: sipp@ikea.com • Website: WWW.IKEA.COM

Certificate No: 1159a-(cl-2) to EN 14604:2005/AC:2008

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Domestic Alarms - Smoke, heat and carbon monoxide

Certificated Products

EK3060	9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base) <i>Notes:</i> 1) <i>This smoke alarm uses replaceable DC 9V Batteries:</i> a) <i>Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G</i> <i>Golden Power: G6F22 & G6F22Mb) Alkaline Battery by; Gold Peak:GN1604A</i> <i>IKEA 6LR61</i>	LPCB Ref. No. 1159a/02
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Bases:
Standard base

Certificate No: 1463a-(cl-2) to EN 14604:2005/AC:2008

Certificated Products

EK3060	9V Battery Operated Photoelectric Smoke Alarm with alarm silence feature (Standard base) <i>Notes:</i> 1) <i>This smoke alarm uses replaceable DC 9V Batteries:</i> a) <i>Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G</i> <i>Golden Power: G6F22 & G6F22Mb) Alkaline Battery by; Gold Peak:GN1604A</i> <i>IKEA 6LR61</i>	LPCB Ref. No. 1463a/02
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Ningbo Kingdun Electronic Industry Co Ltd

No 28 Fengyuan Road, South of Economic Development Area, Yuyao City, Zhejiang Province 315400, China

Tel: 86-13245660018

E-mail: eric@kingdun.com

Certificate No: 1275a to EN 14604:2005/AC:2008

Certificated Products

LM-107A	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm <i>Notes:</i> 1. <i>This smoke alarm uses a non-replaceable battery</i> 2. <i>Battery types approved with this domestic smoke alarm</i> - <i>Pairdeer Lithium CR123A 3V</i> - <i>HCB Primary Lithium CR17355/CR123A</i> - <i>Energizer123 (EL123AP)</i> - <i>EVE CR123A</i>	LPCB Ref. No. 1275a/01
LM-107B	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm <i>Notes:</i> 1. <i>This smoke alarm uses a non-replaceable battery</i> 2. <i>Battery types approved with this domestic smoke alarm</i> - <i>Pairdeer Lithium CR123A 3V</i> - <i>HCB Primary Lithium CR17355/CR123A</i> - <i>Energizer123 (EL123AP)</i> - <i>EVE CR123A</i>	1275a/02
LM-107C	Ten Year Battery Operated Photoelectric Domestic Smoke Alarm <i>Notes:</i> 1. <i>This smoke alarm uses a non-replaceable battery</i> 2. <i>Battery types approved with this domestic smoke alarm</i> - <i>Pairdeer Lithium CR123A 3V</i> - <i>HCB Primary Lithium CR17355/CR123A</i> - <i>Energizer123 (EL123AP)</i> - <i>EVE CR123A</i>	1275a/03
LM-101LA	Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate) <i>Notes:</i> 1. <i>Battery types approved with this domestic smoke alarm</i> - <i>Pair Deer 9V 6F22</i> - <i>GP 9V 1604S</i>	1275a/04

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products	LPCB Ref. No.
<p>- Mustang 9V 6F22 - Pair Deer 9V 6LR61 - GP 9V 1604A - Pair Deer 3 x 1.5V LR6/AA - GP 3 x 1.5V GP15AU - Mustang 3 x 1.5V LR6/AA</p>	
<p>LM-101LB</p> <p>2. The radio link functionality is not included within the scope of approval Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate)</p> <p>Notes:</p> <p>1. Battery types approved with this domestic smoke alarm</p> <p>- Pair Deer 9V 6F22 - GP 9V 1604S - Mustang 9V 6F22 - Pair Deer 9V 6LR61 - GP 9V 1604A - Pair Deer 3 x 1.5V LR6/AA - GP 3 x 1.5V GP15AU - Mustang 3 x 1.5V LR6/AA</p>	1275a/05
<p>LM-101LC</p> <p>2. The radio link functionality is not included within the scope of approval Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate)</p> <p>Notes:</p> <p>1. Battery types approved with this domestic smoke alarm</p> <p>- Pair Deer 9V 6F22 - GP 9V 1604S - Mustang 9V 6F22 - Pair Deer 9V 6LR61 - GP 9V 1604A - Pair Deer 3 x 1.5V LR6/AA - GP 3 x 1.5V GP15AU - Mustang 3 x 1.5V LR6/AA</p>	1275a/06
<p>LM-101LD</p> <p>2. The radio link functionality is not included within the scope of approval Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate)</p> <p>Notes:</p> <p>1. Battery types approved with this domestic smoke alarm</p> <p>- Pair Deer 9V 6F22 - GP 9V 1604S - Mustang 9V 6F22 - Pair Deer 9V 6LR61 - GP 9V 1604A - Pair Deer 3 x 1.5V LR6/AA - GP 3 x 1.5V GP15AU - Mustang 3 x 1.5V LR6/AA</p>	1275a/07
<p>LM-101LE</p> <p>2. The radio link functionality is not included within the scope of approval Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate)</p> <p>Notes:</p> <p>1. Battery types approved with this domestic smoke alarm</p> <p>- Pair Deer 9V 6F22 - GP 9V 1604S - Mustang 9V 6F22 - Pair Deer 9V 6LR61 - GP 9V 1604A - Pair Deer 3 x 1.5V LR6/AA - GP 3 x 1.5V GP15AU - Mustang 3 x 1.5V LR6/AA</p>	1275a/08
<p>LM-101LF</p> <p>2. The radio link functionality is not included within the scope of approval Battery Operated Domestic Smoke Alarm with RF Interlinkable Function (502003 mounting plate)</p> <p>Notes:</p> <p>1. Battery types approved with this domestic smoke alarm</p> <p>- Pair Deer 9V 6F22 - GP 9V 1604S - Mustang 9V 6F22 - Pair Deer 9V 6LR61</p>	1275a/09

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products	LPCB Ref. No.
<p>- GP 9V 1604A - Pair Deer 3 x 1.5V LR6/AA - GP 3 x 1.5V GP15AU - Mustang 3 x 1.5V LR6/AA</p>	
LM-109A <p>2. The radio link functionality is not included within the scope of approval Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/10
LM-109B <p>1. Battery type approved with this smoke alarm: - HCB Battery Co. Ltd CP952434, Li ion, 3Vdc Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/11
LM-109C <p>1. Battery type approved with this smoke alarm: - HCB Battery Co. Ltd CP952434, Li ion, 3Vdc Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/12
LM-109D <p>1. Battery type approved with this smoke alarm: - HCB Battery Co. Ltd CP952434, Li ion, 3Vdc Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/13
LM-109E <p>1. Battery type approved with this smoke alarm: - HCB Battery Co. Ltd CP952434, Li ion, 3Vdc Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/14
LM-109F <p>1. Battery type approved with this smoke alarm: - HCB Battery Co. Ltd CP952434, Li ion, 3Vdc Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/15
LM-109G <p>1. Battery type approved with this smoke alarm: - HCB Battery Co. Ltd CP952434, Li ion, 3Vdc Battery Operated Photoelectric Smoke Alarm with 10 Years Life Note:</p>	1275a/16
LM-101LAW <p>Domestic Smoke Alarm with RF interlinkable function (Mounting Plate) Notes:</p>	1275a/17
<p>1. Battery types approved with this domestic smoke alarm</p> <ul style="list-style-type: none">• Pair Deer 9V 6F22• GP 9V 1604S• Mustang 9V 6F22• Pair Deer 9V 6LR61• GP 9V 1604A• Pair Deer 3 x 1.5V LR6/AA• GP 3 x 1.5V GP15AU• Mustang 3 x 1.5V LR6/AA	
LM-101LG <p>The radio link functionality is not included within the scope of approval Battery Operated Domestic Smoke Alarm with RF interlinkable function (Mounting Plate) Notes:</p>	1275a/18
<p>1. Battery types approved with this domestic smoke alarm</p> <ul style="list-style-type: none">• Pair Deer 9V 6F22• GP 9V 1604S• Mustang 9V 6F22• Pair Deer 9V 6LR61• GP 9V 1604A• Pair Deer 3 x 1.5V LR6/AA• GP 3 x 1.5V GP15AU• Mustang 3 x 1.5V LR6/AA• Fanso ER9V• Forte ER9V	
KD-125A <p>The radio link functionality is not included within the scope of approval Battery Operated Photoelectric Smoke Alarm with a 5 year Battery (502003 mounting plate) Note:</p>	1275a/19

PART 1: SECTION 4.2
DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products	LPCB Ref. No.
<p>KD-125B</p> <p>1. Battery types approved with this domestic smoke alarm - Pair Deer 2 x 1.5V LR03/AAA - Mustang Raymax 2 x 1.5V LR03 - Dukecell 2 x 1.5V LR03</p> <p>Battery Operated Photoelectric Smoke Alarm with a 5 year Battery (502003 mounting plate) Note:</p>	1275a/20
<p>KD-125C</p> <p>1. Battery types approved with this domestic smoke alarm - Pair Deer 2 x 1.5V LR03/AAA - Mustang Raymax 2 x 1.5V LR03 - Dukecell 2 x 1.5V LR03</p> <p>Battery Operated Photoelectric Smoke Alarm with a 5 year Battery (502003 mounting plate) Note:</p>	1275a/21
<p>KD-122LA</p> <p>1. Battery types approved with this domestic smoke alarm - Pair Deer 2 x 1.5V LR03/AAA - Mustang Raymax 2 x 1.5V LR03 - Dukecell 2 x 1.5V LR03</p> <p>Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes:</p>	1275a/22
<p>KD-122LC</p> <p>1. Battery types approved with this domestic smoke alarm - CP605050 3.0V</p> <p>2. The radio link functionality is not included within the scope of approval</p> <p>Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate) Notes:</p>	1275a/23
<p>KD-122LE</p> <p>1. Battery types approved with this domestic smoke alarm: - CP605050 3.0V</p> <p>2. The radio link functionality is not included within the scope of approval</p> <p>Wireless Interconnected Fire Detecting Smoke Alarm (502003 mounting plate) Notes:</p>	1275a/24

Base:
502003 Mounting Plate

Certificate No: 1275b to EN 50291-1: 2010 + A1: 2012

Certificated Products	LPCB Ref. No.
<p>LM-201A</p> <p>Battery Operated Type B Carbon Monoxide Alarm Note:</p> <p>1. Battery types approved with this carbon monoxide alarm: LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd</p>	1275b/01

Ningbo Sentek Electronics Co. Ltd
 448 Yingchun Road, Wangchun Industrial Park, Ningbo City 315175, China
 Tel: 0086-574-8715 5635
 E-mail: service@sentek.cc • Website: <http://www.sentek.cc/>

Certificate No: 1050b to EN 14604:2005

Certificated Products	LPCB Ref. No.
<p>SK-20</p> <p>Domestic Smoke Alarm (Mounting Plate) Notes:</p> <p>1. This smoke alarm uses a non-replaceable battery 2. Battery types approved with this smoke alarm:</p>	1050b/01

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products		LPCB Ref. No.
	<ul style="list-style-type: none">• <i>Energizer 3V Lithium EL123AP</i>• <i>EVE 3V Lithium CR17335</i>• <i>Huizhou Huiderei 3V Lithium CR123A/CR17345</i>	
SK40	Battery Operated Domestic Smoke Alarm Notes: 1. This smoke alarm uses a replaceable 9V battery 2. Battery types approved with this smoke alarm: <ul style="list-style-type: none">• Pairdeer 6F22 (Carbon Zinc battery)• Pairdeer 6LR61 (Alkaline battery)• Pairdeer CR-V9 (Lithium battery)• Duracell MN1604 (Alkaline battery)• Gold Peak 1604P & Gold Peak 1604A (Alkaline battery),• Gold Peak 1604S (Carbon Zinc battery)• Golden Power G6F22 (Carbon Zinc battery)• Golden Power GL6F22A (Alkaline battery)• Eveready 522 (Alkaline battery)• Eveready 216 (Carbon Zinc battery)• Eveready 1222 (Carbon Zinc battery)	1050b/02
SK50	Battery Operated Domestic Smoke Alarm Notes: 1. This smoke alarm uses a replaceable 9V battery 2. Battery types approved with this smoke alarm: <ul style="list-style-type: none">• Pairdeer 6F22 (Carbon Zinc battery)• Pairdeer 6LR61 (Alkaline battery)• Pairdeer CR-V9 (Lithium battery)• Duracell MN1604 (Alkaline battery)• Gold Peak 1604P & Gold Peak 1604A (Alkaline battery),• Gold Peak 1604S (Carbon Zinc battery)• Golden Power G6F22 (Carbon Zinc battery)• Golden Power GL6F22A (Alkaline battery)• Eveready 522 (Alkaline battery)• Eveready 216 (Carbon Zinc battery)• Eveready 1222 (Carbon Zinc battery)	1050b/03

Ancillary
Mounting Plate

REV Ritter GmbH

Frankenstrasse 1-4, Frankenstrasse 1-4

Mömbris, 63776, Germany

Tel: +49 6029 707 766

E-mail: marcus.huth@rev.de • Website: www.rev.de

Certificate No: 1050b-(cl-3) to EN 14604:2005

Certificated Products		LPCB Ref. No.
RWM-20	Domestic Smoke Alarm (Mounting Plate) Notes: 1. <i>This smoke alarm uses a non-replaceable battery</i> 2. <i>Battery types approved with this smoke alarm:</i> <ul style="list-style-type: none">• <i>Energizer 3V Lithium EL123AP</i>• <i>EVE 3V Lithium CR17335</i>• <i>Huizhou Huiderei 3V Lithium CR123A/CR17345</i>	1050b/01

Ancillary
Mounting Plate

Sabre Fire & Security Ltd

6 South Mundells, Welwyn Garden City, Herts AL7 1EP, United Kingdom

Tel: 01707 393888

E-mail: sales@sabre-fire.co.uk

Certificate No: 971a-(cl-4) to EN14604: 2005

Certificated Products

4WOB Mains powered operated photoelectric smoke alarm with primary back-up battery

LPCB Ref.
No.
971a/06**Safewithme OY**

Asessorinkatu 13, Asessorinkatu 13

20780 Kaarina, 20780, Finland

Tel: +358 40 574 9295

E-mail: www.safewith.me

Certificate No: 1050b-(cl-2) to EN 14604:2005

Certificated Products

PV-20 NANO Domestic Smoke Alarm (Mounting Plate)

LPCB Ref.
No.
1050b/01**Notes:**

1. This smoke alarm uses a non-replaceable battery
2. Battery types approved with this smoke alarm:
 - Energizer 3V Lithium EL123AP
 - EVE 3V Lithium CR17335
 - Huizhou Huiderui 3V Lithium CR123A/CR17345

Ancillary

Mounting Plate

Sentura Group (including Fire Depot and Firechief Global)

Sentura House, 3 Lands End Way, Oakham, Rutland LE15 6RB, United Kingdom

Tel: +44 (0)330 999 22 33 • Fax: +44 (0)1572 770133

E-mail: sales@firedepot.co.uk • Website: www.firedepot.co.uk

Certificate No: 1471a-(cl-3) to EN 14604:2005/AC:2008

Certificated Products

FBSD1 Battery Operated Photoelectric Smoke Alarm (Replaceable Battery)

LPCB Ref.
No.
1471a/02**Notes:**

1. Battery types approved with this domestic smoke alarm:

(a). 6F22 - 9V (Carbon-Zinc)	Foshan Zhaoneng Battery Industrial Co.Ltd
(b). 6LR61 - 9V (Alkaline)	Foshan Zhaoneng Battery Industrial Co.Ltd
(c). 6F22 - 9V (Carbon-Zinc)	Zhongyin (Ningbo) Battery Co. Ltd
(d). 6LR61 - 9V (Alkaline)	Zhongyin (Ningbo) Battery Co. Ltd
(e). 522 - 9V (Alkaline)	Energizer Holdings
(f). MN1604 - 9V (Alkaline)	Duracell Incorporation
(g). GP1604A - 9V (Alkaline)	Gold Peak Industries(Holdings) Ltd.
(h). PP1604E - 9V (Carbon-Zinc)	Gold Peak Industries (Holdings) Ltd
(i). RayMax 6LR61	Zhejiang Mustang Battery Co., Ltd

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Shanghai Huiying Industry Co Ltd

Room 1313, Tower A, 1088 New Jinqiao Road, 201206, Shanghai, China

Tel: +86 21 61681700 • Fax: +86 21 61681701

E-mail: sales@pike-fire.com • Website: www.pike-fire.com

Certificate No: 1275b-(cl-6) to EN 50291-1:2010 + A1: 2012

Carbon Monoxide Alarms

Certificated Products

DT-KCM01

Battery Operated Type B Carbon Monoxide Alarm

Note:

1. Battery types approved with this carbon monoxide alarm:
LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd

**LPCB Ref.
No.**

1275b/01

Certificate No: 1275a-(cl-1) to EN 14604:2005/AC:2008

Smoke Alarm

Certificated Products

DT-122LA

Wireless Interconnected Fire Detecting Smoke Alarm with a 10 Year Life (502003 Mounting Plate)

Notes:

1. Battery types approved with this domestic smoke alarm
- CP605050 3.0V
2. The radio link functionality is not included within the scope of approval

**LPCB Ref.
No.**

1275a/22

Bases:

502003 Mounting Plate

Shanghai Mosafe Equipment Co.Ltd

Unit 203, Block B2, 889 Shangcheng Road, Pudong New Area, Shanghai 200120, China

Tel: +86 21 60753200

Certificate No: 1159a-(cl-1) to EN 14604: 2005/AC: 2008

Smoke Alarms

Certificated Products

EK3060

9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard Base)

Notes:

- 1) This smoke alarm uses replaceable DC 9V Batteries:
a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G
Golden Power: G6F22 & G6F22Mb) Alkaline Battery by; Gold Peak:GN1604A
IKEA 6LR61

**LPCB Ref.
No.**

1159a/02

Bases:

Standard Base

Certificate No: 1463a-(cl-1) to EN 14604:2005/AC:2008

Certificated Products

EK3060

9V Battery Operated Photoelectric Smoke Alarm with alarm silence feature (Standard base)

Notes:

- 1) This smoke alarm uses replaceable DC 9V Batteries:
a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G

**LPCB Ref.
No.**

1463a/02

PART 1: SECTION 4.2
DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products

LPCB Ref. No.

Golden Power: G6F22 & G6F22Mb) Alkaline Battery by; Gold Peak:GN1604A
IKEA 6LR61

Shenzhen Fanhai Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 518054, China
Tel: +86 755 2652 1071
E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1159a-(cl-3) to EN 14604:2005/AC:2008

Smoke Alarms

Certificated Products

LPCB Ref. No.

EK3060 9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base)
Notes:
1)This smoke alarm uses replaceable DC 9V Batteries:
a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G
Golden Power: G6F22 & G6F22Mb) Alkaline Batteries by; Gold Peak:GN1604A
IKEA 6LR61

1159a/02

Standard Base

Certificate No: 1463a-(cl-3) to EN 14604:2005/AC:2008

Certificated Products

LPCB Ref. No.

EK3060 9V Battery Operated Photoelectric Smoke Alarm with Alarm Silence Feature (Standard base)
Notes:
1)This smoke alarm uses replaceable DC 9V Batteries:
a) Carbon Zinc Batteries by; Gold Peak: GP1604P & GN1604G
Golden Power: G6F22 & G6F22Mb) Alkaline Batteries by; Gold Peak:GN1604A
IKEA 6LR61

1463a/02

Standard Base

Shenzhen Heiman Technology Co Ltd

No 84 Fuqian Road, Yuexingwei Community, Guanlan, Longhua New District, Shenzhen 518110, China
Tel: +86 75584193930 x8018 • Fax:
E-mail: office@heiman.com.cn

Certificate No: 1138b to EN 14604:2005/AC:2008

Certificated Products

LPCB Ref. No.

HM-625PHS Ten Year Battery Operated Photoelectric Smoke Alarm
Notes:
1. This smoke alarm uses a non-replaceable battery.
2. The only battery type approved with this domestic smoke alarm is - CR17335 CR123A, 3V DC battery manufactured by HCB Battery Co Ltd
HM-626PHS Ten Year Battery Operated Photoelectric Smoke Alarm
Notes:
1. This smoke alarm uses a non-replaceable battery.
2. The only battery type approved with this domestic smoke alarm is

1138b/01

1138b/02

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products

- CR17335 CR123A, 3V DC battery manufactured by HCB Battery Co Ltd

**LPCB Ref.
No.**

Siterwell Electronics CO., Limited

No 666 Qingfeng Road, Jiangbei District, Ningbo, Zhejiang 315034, China

Tel: +31 657615907

E-mail: Roosd@cosaconnects.eu • Website: www.china-siter.com

Certificate No: 1044a to EN 14604:2005/AC:2008

Certificated Products

		LPCB Ref. No.
GS506	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) 1. Battery types approved with this domestic smoke alarm - Raymax: 6LR61 - Duracell: 6LR61 or MN1604 - Golite: G6F22 or 1604D - Forte: ER9V - Gold Peak: GP1604S - Golden Power: G6F22A or G6F22M or S006P - Lonlife: 6F22	1044a/02
GS503	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Note: 1. Battery types approved with this domestic smoke alarm - Raymax: 6LR61 - Duracell: 6LR61 or MN1604 - Golite: G6F22 or 1604D - Forte: ER9V - Gold Peak: GP1604S - Golden Power: G6F22A or G6F22M or S006P - Lonlife: 6F22	1044a/03
GS506A	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Note:1. Identical to GS506 with silver coloured cover	1044a/04
GS506H	Battery Operated Photoelectric Smoke Alarm (Replaceable Battery) Note:1. Identical to GS506 with wood coloured cover	1044a/05

Smartwares Europe

Jules Verneweg 87, 5015 BH Tilburg, The Netherlands

Tel: +31161 455363

E-mail: janny.janssens@smartwaresgroup.com • Website: www.smartwares.eu

Certificate No: 1275b-(cl-2) to EN 50291-1: 2010 + A1: 2012

Carbon Monoxide Alarm

Certificated Products

		LPCB Ref. No.
FA370	Battery Operated Type B Carbon Monoxide Alarm Note: 1. Battery types approved with this carbon monoxide alarm: LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd	1275b/01
RM370	Battery Operated Type B Carbon Monoxide Alarm Note: 1. Battery types approved with this carbon monoxide alarm: LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd	1275b/01
RM377	Battery Operated Type B Carbon Monoxide Alarm Note: 1. Battery types approved with this carbon monoxide alarm: LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd	1275b/01

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom

Tel: +44 (0)207 514 5813

E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 1275b-(cl-4) to EN 50291-1:2010 + A1:2012

Carbon Monoxide Alarms

Certificated Products

1060 SYN

Battery Operated Type B Carbon Monoxide Alarm

Note:

1. Battery types approved with this carbon monoxide alarm:
LR6 1.5V DC AA Alkaline Battery, Zhongyin (Ningbo) Battery Co. Ltd

LPCB Ref.
No.

1275b/01

Visonic

24 Habarzel Street, Tel Aviv 69710, Israel

Tel: +44 (0)870 7300810 • Fax: +44 (0)870 7300801

E-mail: zuri.rubin@jci.com • Website: www.visonic.com

Certificate No: 512e-(cl-1) to EN 50291: 2001

Certificate No: 512j-(cl-1) to EN50291-1: 2010 + A1: 2012

Carbon Monoxide Alarms

Certificated Products

MCT-442

Type A battery operated carbon monoxide alarm

GSD-442 PG2

Type A Battery Operated, Wireless, Carbon Monoxide Alarm

Notes:

1. Battery types approved with this Carbon Monoxide alarm
 - Lithium battery, 9V Ultralife Lithium U9VL-J-P
 - Alkaline battery, 9V Energizer Alkaline #522
 - Alkaline battery, 9V, Duracell MN1604
2. The wireless functionality is not included withing the scope of the approval
3. Only approved for use in EN mode

LPCB Ref.
No.

512e/01
512j/01

Wizmart Technology Inc.

Building B, No 88, Changyang Road, Jiangbei Investment Pioneering Park, Ningbo, Zhejiang 315033, China

Tel: +86-574-55003366

E-mail: rock@wizmart.com • Website: http://wizmart.biz/

Certificate No: 1163d to BS 5446-2:2003

Certificate No: 1163e to EN 14604:2005/AC:2008

Certificate No: 1163f to EN 14604:2005/AC:2008 & BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Certificated Products

NB840-H

AC-DC Domestic Heat Alarm

Notes:

1. Class A2 approved only
2. Battery types approved with this domestic heat alarm:
 - EVE CR9V-P
 - GP 1604S
 - GP GN1604A

LPCB Ref.
No.

1163d/01

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products		LPCB Ref. No.
NB840-S	- PAIRDEER 6F22 - PAIRDEER 6LR61 AC-DC Domestic Smoke Alarm Note: 1. Battery types approved with this domestic smoke alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	1163e/01
NB840-SH	AC-DC Domestic Multi Alarm Notes: 1. Class A2 Approved Only 2. Battery types approved with this domestic multi alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	1163f/01

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: g Hassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330u to EN 14604:2005/AC:2008

Certificated Products		LPCB Ref. No.
ZT-MS	Smoke Alarm Device Note: 1. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	330u/01

Certificate No: 330t to BS 5446-2:2003

Heat Alarms

Certificated Products		LPCB Ref. No.
ZT-MH	Heat Alarm Device Notes: 1. Class A2 approved only 2. Battery types approved with this domestic heat alarm: - EVE CR9V-P - GP 1604S - GP GN1604A - PAIRDEER 6F22 - PAIRDEER 6LR61	330t/01

Certificate No: 330v to EN 14604:2005/AC:2008 & BS 5446-2:2003

Combined Smoke and Carbon Monoxide alarms

Certificated Products		LPCB Ref. No.
ZT-MSH	Smoke and Heat Alarm Device Notes: 1. Class A2 Approved Only	330v/01

PART 1: SECTION 4.2

DOMESTIC ALARMS - SMOKE, HEAT AND CARBON MONOXIDE

Certificated Products

**LPCB Ref.
No.**

2. Battery types approved with this domestic heat alarm:
 - EVE CR9V-P
 - GP 1604S
 - GP GN1604A
 - PAIRDEER 6F22
 - PAIRDEER 6LR61

PART 1: SECTION 5

MANUAL CALL POINTS

The purpose of a manual call point is to enable a person discovering a fire to initiate the operation of a fire alarm system so that appropriate measures can be taken. Therefore it is important for the manual call point to be recognizable and simple to use. For this reason, the European standard has attempted to standardise their appearance and function.

There are basically two types of manual call points which are related to the method of operation.

- Type A: direct operation (single action).
- Type B: indirect operation (double action).

Both types require the breaking or the visible displacement by change of position of a frangible element forming part of the front face.

Guidance on the selection, siting and speed of response should be sought from the applicable installation rule or code of practice (e.g. BS 5839-1). For example BS 5839-1 recommends only type A with a speed of evacuation signal within 3 seconds. Other codes of practice, may require a type B installation.

This section lists manual call points approved for use in fire detection and fire alarm systems in buildings. The initial approval and continued approval processes for manual call points are outlined in scheme document SD041.

Products listed in this section have been approved to:

- EN 54-11: 2001 *Manual call points*
- EN 54-11: 2001 + A1: 2005 *Manual call points*
- EN 54-25: 2008 *Components using radio links*
- ISO 7240-11: 2005 *Manual call points*

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. EN 54-11: 2001 supersedes BS 5839-2: 1983 which was withdrawn in November 2003. EN 54-11: 2001 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market from 1 September 2008.
2. EN 54-25: 2008 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 1 March 2011. It is therefore recommended that radio link components are certificated to EN 54- 25: 2008
3. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom

Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222

E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928h-(cl-5) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificate No: 928p-(cl-1) to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Certificated Products

20-VCP100-ADV

Analogue addressable Type A indoor re-settable manual call point with short circuit

LPCB Ref.

No.

928h/01

Certificated Products	LPCB Ref. No.
20-SGCP100-ADV isolator (SR01 and Flush mounting plate) Wireless type A resettable indoor manual call point (SR01 surface mount back box) <i>Note:</i> <i>1. The device must be used with the following batteries only:</i> <i>CR123A (3Vdc) - main battery</i> <i>CR2032A (3Vdc) - secondary</i>	928p/01
AXIS-CP Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AXIS-WCP Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03
AXIS-RCP Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) <i>Note:</i> <i>This device must be used with the following battery only:</i> <i>CR123A (3Vdc) Batteries</i>	928p/02

Ancillaries

SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain
Tel: +34 91 806 2343 • Fax: +34 91 803 1171
E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928h-(cl-3) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005
Certificate No: 928p-(cl-2) to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Certificated Products	LPCB Ref. No.
AV111AL Analogue addressable Type A indoor re-settable manual call point with short circuit isolator (SR01 and Flush mounting plate)	928h/01
AVW111AL Wireless type A resettable indoor manual call point (SR01 surface mount back box) <i>Note:</i> <i>1. The device must be used with the following batteries only:</i> <i>CR123A (3Vdc) - main battery</i> <i>CR2032A (3Vdc) - secondary</i>	928p/01
AV411AL Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AV411ALE Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03
AVW411AL Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) <i>Note:</i> <i>This device must be used with the following battery only:</i> <i>CR123A (3Vdc) Batteries</i>	928p/02

Ancillaries

SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

PART 1: SECTION 5

MANUAL CALL POINTS

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates

Tel: +971 42630396 • Fax: +971 42630397

E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174d-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products

SC-6653 Conventional Resettable Type A Indoor Manual Call Point (branded as SECURE)
SI-6657 Addressable Resettable Type A Indoor Manual Call Point (branded as SECURE)

LPCB Ref. No.

1174d/01
1174d-(cl-5)

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates

Tel: +971 5 0868 4543 • Fax: +971 6535 9220

E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506d-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products

OM-0217 Conventional Type A Indoor Surface/Flush Mounting Manual Call Point
Note:
1. Approved for surface mount use when used with the AHMB-0217 back box

LPCB Ref. No.

506d/01

Accessories:

AHMB-0217 Back box for surface mounting

Ampac Pty Ltd

7 Ledger Road, Balcatta 6021, Australia

Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334

E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010w to EN 54-11:2001 and EN 54-17:2005

Certificate No: 010n-(cl-2) to EN54-11: 2001 + A1: 2005

Certificate No: 010w-(cl-2) to EN54-11: 2001 + A1: 2005 & EN54-17: 2005

Certificate No: 010bh-(cl-4) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Certificated Products

213-0051 Analogue addressable manual call point with short circuit isolator and surface mounting box
58100-951AMP Discovery analogue addressable waterproof manual call point with short circuit isolator
SA5900-908AMP Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator
(Mounting Bracket and Back Box)

LPCB Ref. No.

010w/01
010w/06
010bh/01

43785-278 Mounting Bracket
43785-279 Back Box

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754
E-mail: enquiries@apollo-fire.co.uk

Sales Enquiries Germany

Apollo Deutschland GmbH
Tel: +49 5241 330 60 • Fax: +49 5241 330 629
E-mail: info@apollo-feuer.de

Sales Enquiries Spain

Apollo Espana
Tel: +34 627 988 061 • Fax: +34 949 335 289
E-mail: apollo.espana@apollo-fire.com

Sales Enquiries China

Apollo Fire Detectors Limited, Shanghai representative office
Tel: +86 21 5237 0922 • Fax: +86 21 5237 0920
E-mail: tony.ye@apollo-fire.com

Certificate No: 010n to EN 54-11: 2001
Certificate No: 010w to EN 54-11: 2001 and EN 54-17: 2005
Certificate No: 010au to EN 54-11: 2001 + A1: 2005
Certificate No: 010av to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005
Certificate No: 010az to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005
Certificate No: 010da to EN 54-11: 2001 + A1: 2005
Certificate No: 010bh to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificated Products		LPCB Ref. No.
55100-905	XP95 Analogue addressable manual call point with surface mounting box	010n/02
58100-910	Discovery Analogue addressable manual call point with surface mounting box	010n/06
55100-908 XP95	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/01
58100-908 Discovery	Analogue addressable manual call point with short circuit isolator and surface mounting box	010w/03
58100-905 Discovery	Analogue addressable manual call point with short circuit isolator, glass frangible element and surface mounting box	010w/05
58100-950	Discovery Analogue addressable waterproof manual call point	010n/08
55100-940	XP95IS Analogue addressable intrinsically safe manual call point.	010n/09
58100-951 Discovery	Analogue addressable waterproof manual call point with short circuit isolator	010w/06
58200-910	Discovery Analogue addressable Type A Indoor Manual Call Point (38532-008 Back Box)	010au/01
55200-021	Conventional Type A Indoor Manual Call Point (38532-008 Back Box)	010au/09
58200-971	Discovery Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator	010av/03
58200-908	Discovery Analogue Addressable Type A Indoor Manual Call Point with short Circuit Isolator	010az/02
58200-971	Discovery Analogue Addressable Type A Indoor Manual Call Point with short Circuit Isolator	010az/03
58200-910	Discovery Analogue addressable Type A Indoor Manual Call Point	010da/01
58200-970	Discovery Analogue addressable Type A Indoor Manual Call Point	010da/03
55200-021	Conventional Type A Indoor Manual Call Point	010da/05
SA5900-908	Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/01
SA5900-928	Intelligent Analogue Addressable Marine Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/03
55400-894	Alarmsense Type A Indoor Manual Call Point (43785-278 Mounting Bracket and 43785-279 Back Box)	010au/14
SA5900-908	Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit	010bh/05

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products		LPCB Ref. No.
SA5900-928	Isolator (Mounting Bracket and Back Box) Intelligent Analogue Addressable Type A Indoor Marine Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	010bh/06
55100-908SIL	XP95 Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/01
58100-908SIL	Discovery Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/03
58100-950PRC	Discovery Analogue Addressable Waterproof Manual Call Point	010n/08
55100-940PRC	XP95 IS Analogue Addressable Intrinsically Safe Manual Call Point	010n/09
58100-908PRC	Discovery Analogue Addressable Manual Call Point with Short Circuit Isolator and Surface Mounting Box	010w/03
Bases		
38532-008	Back Box	
43785-278	Mounting Bracket	
43785-279	Back Box	

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghère, 34015 Muggia, Trieste, Italy

Tel: +39 (0) 40282 1110 • Fax: +39 (0) 402823483

E-mail: dcresseri@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928h to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Certificate No: 928p to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
VCP100	Analogue addressable Type A re-settable manual call point with short circuit isolator (SR01 and Flush mounting plate)	928h/01
SGCP100	Wireless type A resettable indoor manual call point (SRO1 surface mount back box) <i>Note:</i> <i>1. The device must be used with the following batteries only:</i> <i>CR123A (3Vdc) - main battery</i> <i>CR2032A (3Vdc) - secondary</i>	928p/01
SGCP100-FR	Wireless type A resettable indoor manual call point (SRO1 surface mount back box) <i>Note:</i> <i>1. The device must be used with the following batteries only:</i> <i>CR123A (3Vdc) - main battery</i> <i>CR2032A (3Vdc) - secondary</i>	928p/01
ALCP100	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
AI-CPW-R-01	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03
SGCP200	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) <i>Note:</i> This device must be used with the following battery only: - CR123A (3Vdc) Batteries	928p/02

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Argus Spectrum International

65 Serdobolskaya St, St. Petersburg 197342, Russian Federation
Tel: +7 812 7037500 • Fax: +7 812 7037501
E-mail: mail@argusspectrum.com • Website: <https://argusspectrum.com>

Certificate No: 603h to EN 54-11:2001 + A1:2005 & EN 54-25:2008

Manual Call points
Certificated Products

ARG-WL8-CP Wireless Type A Indoor Manual Call Point
Note:
1. The device must be used with the following batteries only:
- Primary CR123A (3V)
- Secondary CR2032 (3V)

**LPCB Ref.
No.**
603h/01

Armor Safety & Security Ltd

120 Baker Street, London W1U 6TU, United Kingdom
Tel: +971506531199
Website: www.armorsafety.org

Certificate No: 928h-(cl-13) to EN 54-11:2001 + A1: 2005, EN 54-17:2005

Certificated Products

ARM-ALCP100 Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-
Transparent hinged cover and FMP-303 Flush Fitting Bezel)

**LPCB Ref.
No.**
928h/02

Ancillaries

ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426d-(cl-3) to EN 54-11:2001 + A1:2005

Certificated Products

AW-D305 Addressable Manual Call Point

**LPCB Ref.
No.**
1426d/01

ASI Oy Ltd (Argus Spectrum International)

Laitaatsillantie 3, Savonlinna 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@argusspectrum.com • Website: <https://argusspectrum.com/>

Certificate No: 1571d to EN 54-11:2001 + A1:2005 & EN 54-25:2008

PART 1: SECTION 5

MANUAL CALL POINTS

Manual Call points

Certificated Products

		LPCB Ref. No.
ARF-WL8-CP	Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01
EK-WL8-CP	(EKHO Brand) Wireless Type A Indoor Manual Call Point Note: 1. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR2032 (3V)	1571d/01

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates

Tel: +971 4 3262730 • Fax: +971 4 3262731

E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 928p-(cl-4) to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Certificate No: 1154h to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
VELOX WLCP100	Wireless type A resettable indoor manual call point (SRO1 surface mount back box) Note: 1. The device must be used with the following batteries only: CR123A (3Vdc) - main battery CR2032A (3Vdc) - secondary	928p/01
VELOX 40800	Analogue addressable Type A resettable indoor manual call point with short circuit isolator (SR01 and Flush mounting plate)	1154h/01
VCP100	Analogue Addressable Type A Resettable Indoor Manual Call Point with Short Circuit Isolator (SR01 and Flush mounting plate)	1154h/01

Ancillaries

SR01 Surface mounting box

Flush mounting plate

Beijing Leader Huaxin Electronics Co. Ltd

No. 17 Rongjing Eastern Road, Economy & Technology Developed Area, Beijing 100176, China

Tel: +86 10 67876681 • Fax: +86 10 67863972

E-mail: hy.chen@beijingleader.com.cn • Website: www.beijingleader.com.cn

Certificate No: 987e to EN 54-11:2001 +A1:2005

Certificated Products

		LPCB Ref. No.
J-SA P-M-LD2000EN	Manual Call Point Note: 1. Analogue Addressable Type A Indoor Manual Call Point	987e/01

Base

LD20-EN MCP Base

Beijing VSAIL Fire Protection Equipment Co Ltd

No. 401, Unit A, Building 32,, No. 99 14th Kechuang Street, BDA, Beijing 100176, China
Tel: +86 10-56691196 • Fax: +86 10-56691100
E-mail: erichenx@vsail.com.cn • Website: www.vsail.com.cn

Certificate No: 1174d to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products

VC-6653 Conventional Resettable Type A Indoor Manual Call Point
VI-6657 Addressable Resettable Type A Indoor Manual Call Point

LPCB Ref. No.
1174d/01
1174d/02

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates
Tel: +971 4 347 2426 • Fax: +971 4 347 2363
E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174d-(cl-3) to EN 54-11:2001 + A1:2005
Certificate No: 1330g-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products

B61-5101 Conventional Resettable Type A Indoor Manual Call Point
IGN-8401 Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point

LPCB Ref. No.
1174d/01
1330g/01

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India
Tel: +911204223473
E-mail: amit@ceasefire.in

Certificate No: 928p-(cl-9) to EN 54-11 : 2001 + A1 :2005 & EN 54-25: 2008

Certificated Products

TI-002257A Wireless Type A Resettable Indoor Manual Call Point (SRO1 Surface Mount Back Box)
Note:
1. The device must be used with the following batteries only:
- CR123A (3Vdc) Main Battery
- CR2032A (3Vdc) Secondary Battery

TI-002347A Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover)
Note:
This device must be used with the following battery only:
- CR123A (3Vdc) Batteries

LPCB Ref. No.
928p/01

928p/02

Ancillaries

SR01 Surface Mount Back Box
ALCI Transparent hinged cover

Certificate No: 928h-(cl-12) to EN 54-11: 2001 + A1: 2005 & EN 54-17: 2005

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

TI-002226 Analogue Addressable Type A Indoor Re-Settable Manual Call Point with Short Circuit Isolator (SR01 and Flush mounting plate)

LPCB Ref. No.
928h/01

Ancillaries

SR01 Surface mounting box
Flush mounting plate

Computationics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom

Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867

E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176h to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products

CA470 Type A Indoor Addressable CAST Manual Call Point with Short Circuit Isolator

LPCB Ref. No.
176h/01

Accessories:

Red Single Gang Back Box

Context Plus Ltd

Export House, 175 Mauldeth Road, Fallowfield, Manchester M14 6SG, United Kingdom

Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817

E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010bh-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificate No: 166b-(cl-3) to EN 54-11:2001 + A1:2005

Certificated Products

SA5900-908IMC Intelligent Addressable Manual Call Point with Short Circuit Isolator (43785-278 Mounting Bracket and 43785-279 Back Box)
MCP1A-525IMC Indoor Surface/Flush Mounting Conventional Call Point

LPCB Ref. No.
010bh/01
166b/39

Accessories:

43785-278 Mounting Bracket
43785-279 Back Box
SR Surface mounting plastic box
SR1T Surface mounting plastic box c/w 1 terminal
SR2T Surface mounting plastic box c/w 2 terminals
SR3T Surface mounting plastic box c/w 3 terminals
SR4T Surface mounting plastic box c/w 4 terminals
MR Surface mounting metal box
ETT European Terminal Tray ETT1, 2 & 3
L Earth Continuity Link
BZR/1 Bezel Type 1
BZR/2 Bezel Type 2
BZR/3 Bezel Type 3
M141W Spacer Piece
PTR Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE
C Hinged Cover

DEF

7, rue du Saule Trapu, MASSY 91300, France
Tel: +33 (0) 160136772
E-mail: frederic.chateau@coflec.com

Certificate No: 1549c-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products

LDMA Addressable Resettable Type A Indoor Manual Call Point with Short Circuit Isolator

LPCB Ref. No.
1549c/01

Detect Fire LLC

1050 Temple Ave, Colonial Heights, Virginia 23834, USA
Tel: 804-417-2244
E-mail: marketing@detectfire.info • Website: http://detectfire.info/

Certificate No: 506d-(cl-5) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products

DF-610-CCP Conventional Type A Outdoor Manual Call Point
Note:
1. Approved for surface mount use when used with the AHMB-0817 back box

LPCB Ref. No.
506d/02

AHMB-0817 Back box for surface mounting

Eaton Electrical Products Limited

Llantarnam Park, Cwmbran, South Wales NP44 3AW, United Kingdom
Tel: +44 (0)1633 628500 • Fax: +44 (0)1633 866346
E-mail: sales@fulleon.co.uk • Website: www.cooperfulleon.com

Certificate No: 378c to EN 54: Part 11: 2001

Certificated Products

CXL/GP/R/WP Conventional type A glass or plastic re-settable indoor/outdoor manual call point
CXL/GP/R/BB Conventional type A glass or plastic re-settable indoor manual call point, with surface mount back box
CXL/GP/R/WP Conventional type A glass or plastic re-settable indoor/outdoor manual call point

LPCB Ref. No.
378c/04
378c/05
378c/06

* Approved with V4NCSET7 Mk1 or V4NSET7-UL micro switches only.

Accessories:
/BB surface mounted (plastic back box)

Eaton Electrical Systems Limited

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB, United Kingdom
Tel: +44 (0)1302 303397 • Fax: +44 (0)1302 303397

Certificate No: 378d-(cl-1) to EN 54-11: 2001 + A1; 2005, EN 54-17: 2005
Certificate No: 378d-(cl-2) to EN 54-11: 2001+ A1: 2005, EN 54-17: 2005

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

		LPCB Ref. No.
CBG 370S	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
MBG813	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
FXN501	Addressable Type A Glass Indoor Manual Call Point with Surface Mount Back Box	378d/05
CBG 370WP	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
MBG817	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
FXN503	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/08
CBG 370-O	Addressable Type A Glass Indoor Manual Call Point, Flush Mounted	378d/13
CBG 370WP-O	Addressable Weatherproof Type A Glass Indoor/Outdoor Manual Call Point	378d/14

Certificate No: 714k to EN 54-11:2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
MBG917	Conventional Type A Weatherproof Manual Call Point with 470R Resistor and 4V7 Zener Diode	714k/02
CX203	Conventional Type A Weatherproof Manual Call Point with 680R Resistor	714k/02
FX203	Conventional Type A Weatherproof Manual Call Point with 680R Resistor	714k/02
MBG914	Conventional Type A Indoor Manual Call Point with 470R Resistor and 4V7 Zener Diode	714k/03
CX201	Conventional Type A Indoor Manual Call Point with 680R Resistor	714k/03
FX201	Conventional Type A Indoor Manual Call Point with 680R Resistor	714k/03
MBG917	Conventional Type A Weatherproof Manual Call Point with 470R Resistor and 4V7 Zener Diode	714k/04
CX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	714k/04
FX203	Conventional Type A Weatherproof Manual Call Point with 680R 2W Resistor	714k/04

Elite Security Products (ESP)

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom

Tel: +44 (0)1527 515150

E-mail: info@espuk.com • Website: <https://www.espuk.com/>

Certificate No: 331d-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
MAGDUOCP	MAGDUO Conventional Type A Indoor Manual Call Point	331d/03
MAGDUOCP1P65	MAGDUO Conventional Type A Outdoor Manual Call Point	331d/04

Accessories

For indoor devices

45-0079-205 Standard Backbox

25-0078-205 Bezel

Emirates Fire Fighting Equipment Factory L.L.C. (FIREX)

P.O.Box 22436, Industrial Area 13, Sharjah, United Arab Emirates

Tel: +971 6 5340300 • Fax: +971 6 5340090

E-mail: firex@emirates.net.ae • Website: www.firexuae.com

Certificate No: 506d to EN 54-11: 2001

Certificated Products

		LPCB Ref. No.
FX-0217	Conventional indoor surface/flush mounting manual call point <i>Note: Approved for surface mount use when used with the AHMB-0217 back box</i>	506d/01

Accessories:

AHMB-0217 back box for surface mounting

Eurofyre Limited

Unit C1 Knowle Village Business Park, Mayles Lane, Wickham, Fareham PO17 5DY, United Kingdom
Tel: 01329 830 462
E-mail: jon@eurofyre.com

Certificate No: 330m-(cl-1) to EN 54-11:2001 + A1:2005 EN 54-17:2005

Manual call points

Certificated Products

16-020	ProFyre Addressable Indoor Type A Manual Call Point with Short Circuit Isolator	LPCB Ref. No. 330m/01
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Eurotech Fire Systems Limited

19/20 Stratfield Park, Eletttra Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom
Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554
E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 653a-(cl-2) to EN 54-11: 2001 + A1: 2005
Certificate No: 1213m to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Manual Call points

Certificated Products

EURVC-MCP	Conventional Type A re-settable indoor flush/surface manual call point. <i>Notes:</i> 1. Flush mount approved model EURVC-MCP-IP24F (M200) 2. Surface mount approved model EURVC-MCP-IP24 (M200 + M125) 3. Surface mount approved model EURVC-MCP-IP24S (M223) 4. Approved colour, red only	LPCB Ref. No. 653a/01
100-2003V	EURV-MCPI Intelligent Type A Indoor Manual Call Point with Short Circuit Isolator (SR01 & Flush Mounting Plate)	1213m/02
200-500A	Odyssey Intelligent Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (Mounting Bracket and Back Box)	1213m/03
100-2203V	Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	1213m/04
100-2204V	Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	1213m/05

Accessories

M200	wall plate
M125	back box
M223	back box
SR01	Surface mounting box
Flush	mounting plate
ALCI	Transparent hinged cover
FMP-303	Flush Fitting Bezel

43785-278	Mounting Bracket
43785-279	Back Box

Certificate No: 1213z to EN 54-11: 2001 + A1: 2005 & EN 54-25: 2008

PART 1: SECTION 5

MANUAL CALL POINTS

Manual Call points

Certificated Products

		LPCB Ref. No.
EUW-CP-01	Wireless Type A Resettable Indoor Manual Call Point (SRO1 Surface Mount Back Box) <i>Note:</i> 1. <i>The device must be used with the following batteries only:</i> - CR123A (3Vdc) - Main Battery - CR2032A (3Vdc) - Secondary Battery	1213z/01
EUW-CP-RS	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) <i>Note:</i> <i>This device must be used with the following battery only:</i> CR123A (3Vdc) Batteries	1213z/02

Ancillaries

SR01 Surface Mount Back Box
ALCI Transparent hinged cover

Everday Technology Co. Limited

No.,95., Sec. 2., Ligong 1 St. Road., Letzer Industrial Park, Yilan County 26841, Taiwan ROC
Tel: +886 3 990 6099 • Fax: +862 3 990 6029
E-mail: alex.hsieh@everday.com • Website: www.everday.com

Certificate No: 512f to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
EM921	Conventional manual call point with LED	512f/01
EM921-F	Conventional manual call point with flashy LED	512f/02
EM921-TC	Conventional manual call point with LED and transparent cover	512f/03
EM921-FTC	Conventional manual call point with flashy LED and transparent cover	512f/04

Accessories:

EM921B1 Regular mounting base, 28mm
EM921B2 High mounting base, 40mm
EM921B3 High mounting base, 55m

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331e to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificate No: 331d to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
403-0006	Sita analogue addressable Type A indoor manual call point with short circuit isolator	331e/01
403-0007	Sita analogue addressable Type A outdoor manual call point with short circuit isolator	331e/02
400-0006	Zeon conventional Type A indoor manual call point	331d/01
400-0007	Zeon conventional Type A outdoor manual call point	331d/02
402-0006	Twinflex conventional Type A indoor manual call point	331d/03
402-0007	Twinflex conventional Type A outdoor manual call point	331d/04

Accessories

for indoor devices
45-0079-205 Standard backbox
25-0078-205 Bezel

Finder Elektronik A.S.

Liman Mah., 6. Sok., No: 10 07070, Konyaalti, Antalya, Turkey
Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 928h-(cl-1) to EN 54-11: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificated Products

FF VB200 Analogue addressable Type A indoor re-settable manual call point with short circuit isolator (SR01 and Flush mounting plate)

LPCB Ref. No.
928h/01

Ancillaries

SR01 Surface mounting box
Flush mounting plate
Deep back box
Safety cover
Wall flush mount plate (white only) and external trim frame (white only)

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450e-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products

FF CP500 Intelligent Addressable Type A Re-settable Manual Call Point

LPCB Ref. No.
1450e/01

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates
Tel: 00971-4-2554494
E-mail: mutasem@firefighterco1.ae

Certificate No: 1174d-(cl-6) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Certificated Products

FST-6657 Addressable Resettable Type A Indoor Manual Call Point (branded as FST)

LPCB Ref. No.
1174d/02

Fireguard Safety Equipment Co Ltd

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 512f-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificate No: 928h-(cl-8) to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

Fireguard FG921-FTC FGCP100	Conventional manual call point with flashy LED and transparent cover Analogue addressable Type A resettable indoor manual call point with short circuit isolator (SR01 and Flush mounting plate)
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LPCB Ref. No.
512f/04
928h/01

Accessories:

Fireguard FG921B1 Regular mounting base, 28mm
Fireguard FG921B2 High mounting base, 40mm
Fireguard FG921B3 High mounting base, 55mm

Ancillaries:

SR01 Surface mounting box
Flush mounting plate

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: info@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 928p-(cl-7) to EN 54-11: 2001 + A1: 2005 & EN 54-25: 2008
Certificate No: 928h-(cl-11) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products

FSRCP2	Wireless Type A Resettable Indoor Manual Call Point (SRO1 Surface Mount Back Box) <i>Note:</i> 1. The device must be used with the following batteries only: - CR123A (3Vdc) - Main Battery - CR2032A (3Vdc) - Secondary Battery
FSIMCP	G2 Addressable Type A Indoor Re-Settable Manual Call Point with Short Circuit Isolator (SR01 and Flush mounting plate)

LPCB Ref. No.
928p/01

928h/01

Ancillaries

SRO1 Surface mount back box
Flush mounting plate

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom
Tel: 00971 653 40300 • Fax: 00971 653 40090
E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548g-(cl-3) to EN 54-11: 2001 + A1: 2005

Certificated Products

FX9204E FX9204EI	Conventional Innovation Type A Manual Call Point, Surface and Flush Mounting Digital Addressable Type A Manual Call Point, Surface and Flush Mounting
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LPCB Ref. No.
548g/07
548g/08

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom
Tel: 00447708000050
E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426d-(cl-5) to EN 54-11: 2001 + A1: 2005

Certificated Products

FRN 60 Intelligent Addressable Fire Alarm Manual Call Point

LPCB Ref. No.
1426d/01

Gent By Honeywell (Novar Systems Ltd)

140 Waterside Road, Hamilton Industrial Park, Leicester LE5 1TN, United Kingdom
Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300
E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Middle East Sales Enquiries:

E-mail: gent.export@honeywell.com

Certificate No: 166b-(cl-2) to EN 54-11: 2001 + A1: 2005
Certificate No: 042bq to EN 54-11:2001 +A1:2005 & EN 54-17:2005

Certificated Products

		LPCB Ref. No.
S4-34800	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (S4-34895 surface mount back box) <i>Note:</i> <i>Approved for use with glass non re-settable element</i>	042bq/01
S4-34842	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator & Protective Cover (S4-34895 surface mount back box) <i>Note:</i> <i>Approved for use with glass non re-settable element</i>	042bq/02
S4-34805	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (S4-34895 surface mount back box) <i>Note:</i> <i>Approved for use with plastic re-settable element</i>	042bq/03
S4-34845	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator & Protective Cover (S4-34895 surface mount back box) <i>Note:</i> <i>Approved for use with plastic re-settable element</i>	042bq/04
S4-34805-EP	Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (MIM1Z003.0 Surface Mounting Base) <i>Note:</i> 1. Approved for use with plastic re-settable element	042bq/05

Ancillaries

S4-34895 surface mount back box
MIM1Z003.0 Surface Mounting Base

Godrej & Boyce Mfg. Co. Ltd

Godrej Security Solutions, Plant 17, Pirojshanagar, Vikhroli (East), Mumbai 400079, India
Tel: +91 22 679 64797 • Fax: +91 22 679 61509
E-mail: securityexports@godrej.com or secure@godrej.com • Website: www.godrejsecure.com

Certificate No: 010bh-(cl-6) to EN 54-11: 2001 + A1:2005 & EN 54-17:2005

Manual Call points

Certificated Products

M-MCP-ID Intelligent Manual Call Point (43785-278 Bracket and 43785-279 Back Box)

LPCB Ref. No.
010bh/01

Ancillaries

43785-278 Mounting Bracket
43785-279 Back Box

PART 1: SECTION 5

MANUAL CALL POINTS

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China

Tel: +86 0335 8502434 • Fax: +86 0335 8502532

E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548g to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
DC-9204E	Conventional Innovation Manual Call Point, Surface and Flush Mounting	548g/07
DI-9204E	Digital Addressable Manual Call Point, Surface and Flush Mounting	548g/08
DC-9204E-HK	Conventional Innovation Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/09
DI-9204E-HK	Digital Addressable Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/10

Accessories:

D-92FC Transparent cover

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom

Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132

E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164j to EN 54-11: 2001 + A1: 2005

Certificate No: 164r to EN 54-17: 2005, EN 54-11: 2001 + A1: 2005

Certificate No: 928p-(ci-6) to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Certificated Products

		LPCB Ref. No.
SCP-DPS	Intelligent Analogue Addressable Type A Indoor Manual Call Point	164j/06
HCP-E(SCI)	Intelligent Analogue Addressable Manual Call Point with short circuit isolator (SR mounting box)	164r/01
HCP-E(HFP)-SCI	Intelligent Analogue Addressable Manual Call Point with short circuit isolator (SR mounting box)	164r/01
HCP-W(SCI)	Weather Proof Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator	164r/02
HCP-W(HFP)-SCI	Weather Proof Intelligent Analogue Addressable Manual Call Point with Short Circuit Isolator	164r/02
RSM-CP	Wireless Type A Resettable Indoor Manual Call Point (SRO1 Surface Mount Back Box)	928p/01
	<i>Note:</i> 1. The device must be used with the following batteries only: CR123A (3Vdc) - main battery CR2032A (3Vdc) - secondary	
HCP-E(DPS)-SCI	Type A Indoor Dual Pole Switching Intelligent Addressable Call Point with Short Circuit Isolator (SR-1T Mounting Box)	164r/03
HCP-W(DPS)-SCI	Type A Outdoor Dual Pole Switching Intelligent Addressable Weatherproof Call Point with Short Circuit Isolator	164r/04
SCP-W(DPS)	Intelligent Analogue Addressable Type A Weatherproof Manual Call Point	164j/07

Accessories:

SR Surface mounting plastic box - indoor models only

SR1T Surface mounting plastic box c/w 1 terminal

SR01 Surface mount back box

Honeywell International (I) Pvt. Ltd.

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India

E-mail: Amrish.Sharma@Honeywell.com • Website: <https://www.systemsensor.com/>

Certificate No: 550h-(cl-3) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products

HW-MCP-GLASS Addressable Type A Indoor Manual Call Point

LPCB Ref. No.
550h/05

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC

Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506d to EN 54-11: 2001 + A1: 2005

Certificated Products

AH-0217 Conventional indoor surface/flush mounting manual call point
Note: Approved for surface mount use when used with the AHMB-0217 back box
AH-0817 Conventional Type A outdoor Manual Call Point
Note: Approved for surface mount use when used with the AHMB-0817 back box

LPCB Ref. No.
506d/01
506d/02

Accessories:

AHMB-0217 back box for surface mounting
AHMB-0817 back box for surface mounting

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy

Tel: +39 0735 705007 • Fax: +39 0735 704912

E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991h to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificate No: 991j to EN 54-11:2001 + A1:2005

Certificated Products

EC0020 Addressable Type A Indoor Re-settable Manual Call Point with Short Circuit Isolator
IC0020 Conventional Type A Indoor Re-settable Manual Call Point

LPCB Ref. No.
991h/01
991j/01

KAC Alarm Company Limited

KAC House, Thornhill Road, North Moons Moat, Redditch, Worcestershire B98 9ND, United Kingdom

Tel: +44 (0)1527 406655 • Fax: +44 (0)1527 406677

E-mail: sales@kac.co.uk OR marketing@kac.co.uk • Website: www.kac.co.uk

Certificate No: 166b to EN 54-11: 2001 + A1: 2005

Certificated Products

MCP1A-Rxxxxx-yyyy-zzIS Indoor surface/flush mounting conventional call point
MCP1B-Rxxxxx-yyyy-zz Indoor surface/flush mounting conventional call point
MCP2A-Rxxxxx-yyyy-zz Indoor surface/flush mounting conventional call point

LPCB Ref. No.
166b/39
166b/40
166b/41

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

		LPCB Ref. No.
MCP2B-Rxxxx-yyy-zz	Indoor surface/flush mounting conventional call point	166b/42
MCP3A-Rxxxx-yyy-zz	Indoor surface/flush mounting conventional call point	166b/43
MCP4A-R000x-yyy-zz	Indoor surface/flush mounting conventional call point	166b/44
MCP5A-RP01wxx-yyy-zz	Indoor surface/flush mounting addressable call point	166b/45
MCP5A-RP03wxx-yyy-zz	Advanced Protocol (and System Sensor 500 series protocol) Indoor surface/flush mounting addressable call point	166b/47
	Advanced Protocol (and Honeywell 500 series protocol)	
	Notes:	
	1. <i>ww</i> (Range 0-99 odd numbers only) indicates the communication software protocol	
	2. <i>ww X x</i> indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals)	
	3. <i>x G</i> (Glass element) <i>x F</i> (Flexible element)	
	4. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code.	
	Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	5. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639	
	6. <i>IS</i> indicates the intrinsically safe version.	
WCP1A-RxxxSx-yyy-zz	Outdoor surface mounting conventional waterproof call point	166b/51
WCP1B-RxxxSx-yyy-zz	Outdoor surface mounting conventional waterproof call point	166b/52
WCP2A-RxxxSx-yyy-zz	Outdoor surface mounting conventional waterproof call point	166b/53
WCP2B-RxxxSx-yyy-zz	Outdoor surface mounting conventional waterproof call point	166b/54
WCP3A-RxxxSx-yyy-zz	Outdoor surface mounting conventional waterproof call point	166b/55
WCP4A-R000Sx-yyy-zz	Outdoor surface mounting conventional waterproof call point	166b/56
WCP5A-RPwwSx-yyy-zz	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and System Sensor 500 series protocol)	166b/57
WCP5A-RPwwSx-yyy-zz	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and Honeywell 500 series protocol)	166b/59
	Notes:	
	1. <i>ww</i> (Range 0-99 odd numbers only) indicates the communication software protocol	
	2. S G (Glass element) S F (Flexible element)	
	3. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	4. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639	
	5. <i>IS</i> indicates the intrinsically safe version.	
MCP1A-Rxxxx-yyy-zz	Indoor surface/flush mounting conventional call point	166b/39
MCP1B-Rxxxx-yyy-zzIS	Indoor surface/flush mounting conventional call point	166b/40
MCP2A-Rxxxx-yyy-zzIS	Indoor surface/flush mounting conventional call point	166b/41
MCP2B-Rxxxx-yyy-zzIS	Indoor surface/flush mounting conventional call point	166b/42
	Notes:	
	1. XXX <i>xx</i> indicates the series resistor value 039 <i>xx</i> (lowest 39 4K7 <i>xx</i> (highest 4.7 k	
	2. <i>xxx X x</i> indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals)	
	3. <i>xxxx G</i> (Glass element) <i>xxxx F</i> (Flexible element)	
	4. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	5. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639	
	6. <i>IS</i> indicates the intrinsically safe version.	
MCP3A-Rxxxx-yyy-zzIS	Indoor surface/flush mounting conventional call point	166b/43
	Notes:	
	1. XXX <i>xx</i> indicates the electrical configuration (000 <i>xx</i> = no resistor, C01 <i>xx</i> = single pole changeover connections)	
	2. <i>xxx X x</i> indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals)	
	3. <i>xxxx G</i> (Glass element) <i>xxxx F</i> (Flexible element)	
	4. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	5. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639	

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products		LPCB Ref. No.
	6. IS indicates the intrinsically safe version.	
MCP4A-R000xx-yyyy-zzIS	Indoor surface/flush mounting conventional call point Notes: 1. X x indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals) 2. x G (Glass element) x F (Flexible element) 3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639 5. IS indicates the intrinsically safe version.	166b/44
MCP5A-RP07xx-zz	Indoor surface/flush mounting addressable call point (Labor Strauss protocol) Advanced Protocol (and Labor Strauss protocol) Notes: 1. X x indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals) 2. x G (Glass element) x F (Flexible element) 3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	166b/67
WCP5A-RP07Sx-zz	Outdoor surface mounting addressable call point Advanced Protocol (and Labor Strauss protocol) Notes: 1. S G (Glass element) S F (Flexible element) 2. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	166b/68
WCP1A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	166b/51
WCP1B-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	166b/52
WCP2A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point	166b/53
WCP2B-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point Notes: 1. XXX xx indicates the series resistor value 039 xx (lowest 39 4K7 xx (highest 4.7 k 2. xxx S G (Glass element) xxx S F (Flexible element) 3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639 5. IS indicates the intrinsically safe version.	166b/54
WCP3A-RxxxSx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point Notes: 1. XXX Sx indicates the electrical configuration (000 Sx = no resistor, C01 Sx = single pole changeover connections) 2. xxx S G (Glass element) xxx S F (Flexible element) 3. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 4. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639 5. IS indicates the intrinsically safe version.	166b/55
WCP4A-R000Sx-yyyy-zzIS	Outdoor surface mounting conventional waterproof call point Notes: 1. S G (Glass element) S F (Flexible element) 2. yyyy (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label 3. zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639 4. IS indicates the intrinsically safe version.	166b/56
MCP6H-RC01xx-yyyy-zz	Indoor surface/flush mounting conventional call point Notes: 1. RC01 X x indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals) 2. RC01x G (Glass element) RC01x F (Flexible element)	166b/69

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

		LPCB Ref. No.
	3. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	4. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	
MCP6V-RC01xx-yyyy-zz	Indoor surface/flush mounting conventional call point	166b/70
	Notes:	
	1. <i>RC01 X x</i> indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals)	
	2. <i>RC01x G</i> (Glass element) <i>RC01x F</i> (Flexible element)	
	3. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	4. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	

Accessories:

SR	Surface mounting plastic box(1)
SR1T	Surface mounting plastic box c/w 1 terminal(1)
SR2T	Surface mounting plastic box c/w 2 terminals(1)
SR3T	Surface mounting plastic box c/w 3 terminals(1)
SR4T	Surface mounting plastic box c/w 4 terminals(1)
ETT	European Terminal Tray ETT1, 2 & 3(1)
L	Earth Continuity Link(1)
M141W	Spacer Piece(1)
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE(1)
C	Hinged Cover(2)
	Notes:
	1. The above accessories are only supplied with MCP 1-7 Series manual call points
	2. The hinged cover is only supplied with the MCP & WCP Series manual call points optionally indicated by the presence of 'C' at the end of the model number.

Certificate No: 166e to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
MCP5A-RPwwx-yyyy-zz	Indoor/Outdoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol)	166e/01
MCP5A-RPwwx-yyyy-zz	Indoor/Outdoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol)	166e/02
	Notes:	
	1. <i>ww</i> (Range 0-99 even numbers only) indicates the communication software protocol	
	2. <i>ww X x</i> indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals)	
	3. <i>x G</i> (Glass element) <i>x F</i> (Flexible element)	
	4. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	5. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol)	166e/03
WCP5A-RPwwSx-yyyy-zz	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol)	166e/04
	Notes:	
	1. <i>ww</i> (Range 0-99 even numbers only) indicates the communication software protocol	
	2. <i>S G</i> (Glass element) <i>S F</i> (Flexible element)	
	3. <i>yyyy</i> (Range A000 to Z999 or STCK for standard stocked product), indicates a customer account code. Only specific account codes are LPCB approved and indicated by the presence of the LPCB logo placed on the product label	
	4. <i>zz</i> (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.	

Certificated Products	LPCB Ref. No.
MCP5A-RP08xx-zz Indoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and Labor Strauss protocol) <i>Notes:</i> 1. <i>X x indicates mounting (S =Surface mounted, F =Flush mounted, P =Pattress mounted, 1-4 = Surface mounted with 1-4 terminals)</i> 2. <i>x G (Glass element) x F (Flexible element)</i> 3. <i>zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.</i>	166e/07
WCP5A-RP08Sx-zz Outdoor surface mounting addressable call point with short circuit isolator Advanced Protocol (and Labor Strauss protocol) <i>Notes:</i> 1. <i>S G (Glass element) S F (Flexible element)</i> 2. <i>zz (Range 0-99) indicates customer marking options detailed on KAC controlled drawing 08/2639.</i>	166e/08

Accessories:

SR	Surface mounting plastic box ⁽¹⁾
SR1T	Surface mounting plastic box c/w 1 terminal ⁽¹⁾
SR2T	Surface mounting plastic box c/w 2 terminal ⁽¹⁾
SR3T	Surface mounting plastic box c/w 3 terminal ⁽¹⁾
SR4T	Surface mounting plastic box c/w 4 terminal ⁽¹⁾
ETT	European Terminal Tray ETT 1, 2 & 3 ⁽¹⁾
L	Earth Continuity Link ⁽¹⁾
M141W	Spacer Piece ⁽¹⁾
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE ⁽¹⁾
C	Hinged Cover ⁽²⁾

Notes:

1. *The above accessories are only supplied with MCP Series manual call points*
2. *The hinged cover is supplied with the MCP & WCP Series manual call points optionally indicated by the present of 'C' at the end of the model number.*

Certificate No: 550h to EN54-11: 2001 + A1: 2005

Certificated Products	LPCB Ref. No.
MCP2A-R470FF/01	Conventional Type A Indoor Flush Mounted Flexible Element Manual Call Point
MCP2A-R470SF/01	Conventional Type A Indoor Surface Mounted Flexible Element Manual Call Point

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania

Tel: 0040232247288

E-mail: marius.gavriluta@kmw.ro

Certificate No: 1174d-(cl-7) to EN 54-11:2001 + A1:2005

Manual Call points

Certificated Products	LPCB Ref. No.
KM-FC5300	Conventional Resettable Type A Indoor Manual Call Point
KM-FA6300	Addressable Resettable Type A Indoor Manual Call Point

PART 1: SECTION 5

MANUAL CALL POINTS

Labor Strauss Sicherungsanlagenbau GmbH

Wiegelestrasse 36, A-1231 Vienna, Austria

Tel: +43 1 52114-44 • Fax: +43 1 52114-27

E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928h-(cl-6) to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Certificate No: 928p-(cl-10) to EN 54-11: 2001 + A1: 2006, EN 54-15: 2008

Certificated Products

		LPCB Ref. No.
FI700/MCP	Analogue addressable Type A re-settable manual call point with short circuit isolator (SR01 and Flush mounting plate)	928h/01
FI750/MCP	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-Transparent hinged cover and FMP-303 Flush Fitting Bezel)	928h/02
FI750/MCPIP67	Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03
FI750/RF/MCP	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover)	928p/02

Note:
This device must be used with the following battery only:
CR123A (3Vdc) Batteries

Ancillaries

SR01 Surface mounting box

Flush mounting plate

ALCI -Transparent hinged cover

FMP-303 Flush Fitting Bezel

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey

Tel: +90 216 4664 505 • Fax: +90 216 4664 510

E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926h to EN 54-11:2001 +A1:2005

Certificate No: 926k to EN 54-11:2001 +A1:2005 & EN 54-17:2005

Manual Call Points

Certificated Products

		LPCB Ref. No.
ML-2710	Conventional Type A Indoor Manual Call Point, Resettable	926h/01
ML-1710	Maxlogic Intelligent Analogue Addressable Type A Indoor Resettable Manual Call Point	926h/02
ML-1710.SCI	Maxlogic Intelligent Analogue Addressable Type A Indoor Resettable Manual Call Point with Short Circuit Isolator	926k/01

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy

Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888

E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 166e to EN 54-11: 2001 and EN 54-17: 2005

Certificate No: 166b to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
MI-MCP-xxxxx-I	Indoor surface/flush mounting addressable call point with short circuit isolator. Advanced Protocol Honeywell 500 series protocol	166e/02

Note:
1. xxxxx = **GLASS** (Glass element) or **FLEX_** (Flexible element)

Certificated Products		LPCB Ref. No.
MI-MCP-xxxxx	Indoor surface/flush mounting addressable call point Advanced Protocol (and Honeywell 500 series protocol) Notes: 1. xxxxx = GLASS (Glass element) FLEX (Flexible element)	166b/47
MI-WCP-R/Sx	Outdoor surface mounting addressable waterproof call point Advanced Protocol (and Honeywell 500 series protocol) Notes: 1. Sx = S G (Glass element) S F (Flexible element)	166b/59
MI-WCP-R/ISx	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol (and Honeywell 500 series protocol) Note: 1. Sx = S G (Glass element) S F (Flexible element)	166e/04

Accessories:

SR	Surface mounting plastic box ⁽¹⁾
SR1T	Surface mounting plastic box c/w 1 terminal ⁽¹⁾
SR2T	Surface mounting plastic box c/w 2 terminal ⁽¹⁾
SR3T	Surface mounting plastic box c/w 3 terminal ⁽¹⁾
SR4T	Surface mounting plastic box c/w 4 terminal ⁽¹⁾
ETT	European Terminal Tray ETT 1, 2 & 3 ⁽¹⁾
L	Earth Continuity Link ⁽¹⁾
BZR/1	Bazel Type 1 ⁽¹⁾
BZR/2	Bazel Type 2 ⁽¹⁾
BZR/3	Bazel Type 3 ⁽¹⁾
M141W	Spacer Piece ⁽¹⁾
PTR	Patress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE ⁽¹⁾
C	Hinged Cover ⁽²⁾

Notes:

- The above accessories are only supplied with MI-MCP-xxxxx & MI-MCP-xxxxx-I manual call point
- The hinged cover may be supplied with all models and is optionally indicated by the presence of 'C' at the end of the model number.

Multron Systems Pte Ltd

217 Kallang Bahru, Multron Building, Singapore 339 347, Singapore
Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869
E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330g-(cl-3) to EN 54-11:2001 + A1: 2005

Certificated Products		LPCB Ref. No.
MX140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	1330g/01

Notifier by Honeywell

Sector 36, Pace City II, Gurgaon-122004, Haryana, India
Tel: +91-124 4752700 ext 2712
E-mail: amit.puri@honeywell.com

Certificate No: 550h-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products		LPCB Ref. No.
NFX-MCP-GLASS	Addressable Type A Manual Call Point	550h/01

PART 1: SECTION 5

MANUAL CALL POINTS

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, Italy 34147, United Kingdom

Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888

E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 166e to EN 54-11: 2001 + A1: 2005 and EN 54-17: 2005

Certificate No: 166b to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
M700KACI-xx	Indoor surface/flush mounting addressable call point with short circuit isolator Advanced Protocol (and System Sensor 500 series protocol) Notes: 1. xx = S x (Surface mounted) F x (Flush mounted) 2. xx = x G (Glass element) x F (Flexible element) 3. The above manual call point is approved with three micro-switches (Honeywell ZM10E50A01, Otehall 294/20/150/G and Burgess X4G31051BBAQ)	166e/01
M700KAC-xx	Indoor surface/flush mounting addressable call point Advanced Protocol System Sensor 500 series protocol) Notes: 1. xx = S x (Surface mounted) F x (Flush mounted) 2. xx = x G (Glass element) x F (Flexible element)	166b/45
M700WCP-R/I/Sx	Outdoor surface mounting addressable waterproof call point with short circuit isolator Advanced Protocol System Sensor 500 series protocol) Note: 1. S x = S G (Glass Element) S F (Flexible Element)	166e/03

Accessories:

SR	Surface mounting plastic box ⁽¹⁾
SR1T	Surface mounting plastic box c/w 1 terminal ⁽¹⁾
SR2T	Surface mounting plastic box c/w 2 terminal ⁽¹⁾
SR3T	Surface mounting plastic box c/w 3 terminal ⁽¹⁾
SR4T	Surface mounting plastic box c/w 4 terminal ⁽¹⁾
ETT	European Terminal Tray ETT 1, 2 & 3 ⁽¹⁾
L	Earth Continuity Link ⁽¹⁾
BZR/1	Bazel Type 1 ⁽¹⁾
BZR/2	Bazel Type 2 ⁽¹⁾
BZR/3	Bazel Type 3 ⁽¹⁾
M141W	Spacer Piece ⁽¹⁾
PTR	Pattress PTR, PTRE, PTR2T, PTR2TE, PTR3T & PTR3TE ⁽¹⁾
C	Hinged Cover ⁽²⁾

Notes:

1. The above accessories are only supplied with M700KAC-xx & M700KACI-xx manual call points
2. The hinged cover may be supplied with all models and is optionally indicated by the presence of 'C' at the end of the model number.

nuhas oman

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India

Tel: +91 124 4752700 • Fax: +91 124 4752750

E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550h-(cl-2) to EN 54-11:2001 + A1:2005

Manual Call Points

Certificated Products

		LPCB Ref. No.
HM-MCP-GLASS	Addressable Type A Indoor Manual Call Point	550h/04

Olympia Electronics S.A.

Kolindros Pierias, 60061, Greece

Tel: (+30) 2353051200 • Fax: (+30) 2353051486

E-mail: info@olympia-electronics.gr • Website: www.olympia-electronics.gr

Certificate No: 1010c to EN 54-11: 2001 + A1: 2005

Certificated Products

BS-536 Conventional Type A Resettable Indoor Manual Call Point
BSR-5036/A Addressable Type A Resettable Indoor Manual Call Point

LPCB Ref. No.
1010c/01
1010c/02

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia

Tel: +62216330330

E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426d-(cl-4) to EN 54-11: 2001 + A1: 2005

Certificated Products

SMC 237 Addressable Manual Call Point

LPCB Ref. No.
1426d/01

Ravel Electronics Ltd

Unit 11, Chancel Industrial Estate, Newhall Street, Willenhall WV13 1NX, United Kingdom

Tel: 0845 835 8855

E-mail: exportsales@ravelfire.co.uk

Certificate No: 512f-(cl-4) to EN54-11: 2001 + A1: 2005

Manual Call points

Certificated Products

RE-736FF Conventional manual call point with flashy LED and transparent cover

LPCB Ref. No.
512f/04

Accessories

EM921B1 Regular mounting base, 28mm
EM921B2 High mounting base, 40mm
EM921B3 High mounting base, 55mm

Safety Technology International Limited

Taylor House, 34 Sherwood Road, Aston Fields Industrial estate, Bromsgrove, Worcestershire B60 3DR, United Kingdom

Tel: +44 (0)1527 520999 • Fax: +44 (0)1527 501999

E-mail: sales@sti-europe.com • Website: www.sti-europe.com

Certificate No: 653a to EN 54-11: 2001 + A1: 2005

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

Series 01

Conventional Type A re-settable indoor flush/surface mounted manual call point

Notes:

1. Flush mount approved model RP-RF-01 (M200)
2. Surface mount approved model RP-RS-01 (M200 + M125)
3. Surface mount approved model RP-RS1-01 (M223)
4. Flush mount approved model RP-RF2-01 (M200/V2)
5. Dual mount approved model RP-RD2-01 (M200/V2 + M223/V2)
6. Surface mount approved model RP-RS2-01 (M223/V2)
7. Approved colour, red only

LPCB Ref.

No.

653a/01

Accessories

M200 Wall Plate

M125 Back Box

M223 Back Box

M200/V2 Wall Plate

M223/V2 Back Box

Schneider Electric Fire & Security Oy

Sokerilinnantie 11C, 02600, Espoo, Finland

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E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 010bh-(cl-3) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products

FFS06723706

Intelligent Addressable Manual Call Point with Short Circuit Isolator

(43785-278 Mounting Bracket and 43785-279 Back Box)

43785-278 Mounting Bracket

43785-279 Back Box

ECE221-I

ESMI Essentia Manual Call Point ECE221-I

(43785-278 Mounting Bracket and 43785-279 Back Box)

LPCB Ref.

No.

010bh/01

010bh/01

Shenzhen Fanhai Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 518054, China

Tel: +86 755 2652 1071

E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426d-(cl-2) to EN 54-11: 2001 + A1: 2005

Certificated Products

A9060T

Addressable Manual Call Point

LPCB Ref.

No.

1426d/01

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

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E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010bh-(cl-2) to EN 54-11:2001 + A1: 2005, EN 54-17:2005

Certificate No: 010n-(cl-3) to EN 54-11:2001 + A1:2005

Certificate No: 010w-(cl-3) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Certificate No: 928p-(cl-11) to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Manual Call points

Certificated Products

		LPCB Ref. No.
SEN-A4061	Intelligent Addressable Manual Call Point with Short Circuit Isolator	010bh/01
SIL-A7033	SIL I.S. Manual Call Point	010n/09
SIL-A7011	SIL Indoor Manual Call Point with Isolator	010w/01
SIL-A7023	SIL Waterproof Manual Call Point with Isolator	010w/06
SW-5000	Wireless Type A Resettable Indoor Manual Call Point (SRO1 Surface Mount Back Box)	928p/01
	Note:	
	1.The device must be used with the following batteries only:	
	- CR123A (3Vdc) Main Battery	
	- CR2032A (3Vdc) Secondary Battery	
SW-5500	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover)	928p/02
	Note:	
	This device must be used with the following battery only:	
	- CR123A (3Vdc) Batteries	

Ancillaries

SR01 Surface Mount Back Box
ALCI- Transparent hinged cover

SHIELD FIRE, SAFETY AND SECURITY LTD

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

Tel: +44 207 712 1610 • Fax: +44 207 712 1578

E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 548g-(cl-4) to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
BG-C440F	Conventional Innovation Manual Call Point, Surface and Flush Mounting	548g/07
BG-I450F	Digital Addressable Manual Call Point, Surface and Flush Mounting	548g/08

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland

Website: www.siemens.com

Certificate No: 126ap to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificate No: 126as to EN 54-11:2001 + A1:2005

Certificate No: 531j-(cl-1) to EN 54-11:2001 + A1:2005

Certificate No: 531k-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
FDM225-RP	Digital addressable Type A Indoor Manual Call Point with Resettable Plastic Element and incorporating a Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/01
FDM225-RG	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/02
FDM226-RP	Digital Addressable Type A Indoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator (Including Housing Base with fixing attachments and FDMC295)	126ap/03
FDM226-RG	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator (Including Housing Base with fixing attachments and FDMC295)	126ap/04
FDM225-RP (F)	Digital Addressable Type A Indoor Manual Call Point with Re-Settable Plastic Element and incorporating a Short Circuit Isolator; French Labelling on Re-Settable Plastic Element (FDMH295-R, FDMH295-S and FDMC295)	126ap/10
FDM225-RG (F)	Digital Addressable Type A Indoor Manual Call Point with Non Re-Settable Glass Element and incorporating a Short Circuit Isolator; French Labelling on Non-Re-Settable Glass Element (FDMH295-R, FDMH295-S and FDMC295)	126ap/11
FDM1101-RG	Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element (FDMC295)	126as/01
FDM1101-RP	Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element	126as/02

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products		LPCB Ref. No.
FDM1101A-RG	(FDMC295) Conventional Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element (FDMC295)	126as/03
FDM1101A-RP	Conventional Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element (FDMC295)	126as/04
FDM1101-RG(F)	Collective Type A Indoor / Outdoor Manual Call Point with Non-Resettable Glass Element; French Labelling on Non-Resettable Glass Element (FDMC295)	126as/05
FDM1101-RP(F)	Collective Type A Indoor / Outdoor Manual Call Point with Resettable Plastic Element; French Labelling on Resettable Plastic Element (FDMC295)	126as/06
DM1104	Conventional Type A Indoor and Outdoor Manual Call Point	531j/02
DM1104H	Conventional Type A Indoor and Outdoor Manual Call Point (DMZ1197-AC)	531j/03
FDM221	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (FDMC291 and FDMK291)	531k/07
FDM223	Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporation Short Circuit Isolator (DMZ1197-AC and DMZ1195)	531k/08
FDM223H	Digital Addressable Type B Indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1197-AD)	531k/09
FDM224	Digital Addressable Type A Indoor/Outdoor Manual Call Point with Re-Settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1195)	531k/10
FDM224H	Digital Addressable Type A indoor/Outdoor Manual Call Point with Re-settable Glass Element and Incorporating Short Circuit Isolator (DMZ1197-AC and DMZ1197-AD)	531k/11
FDM231-RP	Addressable Indoor Manual Call Point with Short Circuit Isolator (FDMK231, FDME231 and FDMH231-S-R)	531k/12
FDM231-RP(F)	Addressable Indoor Manual Call Point with Short Circuit Isolator (FDMK231, FDME231-FR and FDMH231-S-R)	531k/13
FDM365-RP	Addressable Manual Call Point, Type A, with a Re-Settable Plastic Element, and Short Circuit Isolator (FDMH295-R, FDMH295-S and FDMC295)	126ap/12

Bases:

FDMH295-R	Housing Base
FDMH295-S	Housing Base with Holes and Sockets

Accessories:

FDMC295	Transparent Polycarbonate Protective Cover
DMZ1197-AC	Protective Cover
FDMC291	Protective cover
FDMK231	Key
FDMK291	Key with cover
DMZ1197-AD	Seal for wet areas
DMZ1195Key	
DMZ1197-AC	Protective Cover
FDME231	Switching unit
FDME231-FR	Switching unit (French Variant)
FDMH231-S-R	Housing base

Silver-Tec Limited

Unit 1-2, Building 53B, Pensnett Trading Estate, Kingswinford, West Midlands DY6 7XQ, United Kingdom

Tel: +44 (0)1384 671611

E-mail: info@silver-tec.co.uk • Website: www.silver-tec.co.uk

Certificate No: 166k-(cl-3) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
ST-CAN-SCR	Intelligent Analogue Addressable Type A Manual Call Point with Short Circuit Isolator (SR Mounting Box)	166k/03
ST-ACW-SCR	Weatherproof Intelligent Analogue Addressable Type A Manual Call Point with Short Circuit Isolator	166k/05

SR - Surface Mounting Plastic Box - Indoor Models Only

SMS (Novar Systems Ltd)

Hamilton Industrial Park, 140 Waterside Road, Leicester LE5 1TN, United Kingdom
Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016
Website: www.smsfire.co.uk

Certificate No: 042bq to EN 54-11:2001 +A1:2005 & EN 54-17:2005

Certificated Products		LPCB Ref. No.
SEN-800	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SEN-895 surface mount back box) Note: 1. Approved for use with glass non re-settable element	042bq/01
SEN-805	Analogue Addressable Type A Indoor Manual Call Point with Short Circuit Isolator (SEN-895 surface mount back box) Note: 1. Approved for use with plastic re-settable element	042bq/03
SEN-805-EP	Analogue Addressable Type A Outdoor Manual Call Point with Short Circuit Isolator (MIM1Z003.0 Surface Mounting Base) Note: 1. Approved for use with plastic re-settable element	042bq/05

Ancillaries

SEN-895 Surface Mount Back Box
MIM1Z003.0 Surface Mounting Base

SS Fire & Security Sdn Bhd

80A, Jalan Megat, Batu Pahat, Johor 83000, Malaysia
Tel: +60167788888
E-mail: ss@ssfiresecurity.com

Certificate No: 548g-(cl-7) to EN 54-11: 2001 + A1: 2005

Manual Call points

Certificated Products		LPCB Ref. No.
SEC-9204E	Conventional Innovation Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/07
SEA-9204E	Digital Addressable Type A Indoor Manual Call Point, Surface and Flush Mounting	548g/08

Sterling Safety Systems

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom
Tel: +44(0)1926485282 • Fax: +44(0)1926485090
E-mail: info@sterlingsafety.co.uk • Website: www.sterlingsafety.co.uk

Certificate No: 928h-(cl-14) to EN 54-11: 2001 + A1: 2002 and EN 54-17: 2005

Certificate No: 928p-(cl-5) to EN 54-11: 2001 + A1: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
HFI-CP-01	Analogue addressable Type A indoor re-settable manual call point with short circuit isolator (SR01 and Flush mounting plate)	928h/01
HFW-CP-01	Wireless type A resettable indoor manual call point (SRO1 surface mount back box) Note: 1. The device must be used with the following batteries only: CR123A (3Vdc) - main battery CR2032A (3Vdc) - secondary	928p/01
HFI-CP-03	Altair Type A Indoor Addressable Manual Call Point with Short Circuit Isolator (ALCI-	928h/02

PART 1: SECTION 5

MANUAL CALL POINTS

Certificated Products

		LPCB Ref. No.
HFI-CP-WP-03	Transparent hinged cover and FMP-303 Flush Fitting Bezel) Altair Type A Outdoor Addressable Manual Call Point with Short Circuit Isolator (Waterproof) (ALCI -Transparent hinged cover)	928h/03
HFW-CP-03	Wireless Type A Indoor Addressable Manual Call Point (ALCI-Transparent hinged cover) <i>Note:</i> <i>This device must be used with the following battery only:</i> <i>CR123A (3Vdc) Batteries</i>	928p/02

Ancillaries

SR01 Surface mounting box
Flush mounting plate
ALCI -Transparent hinged cover
FMP-303 Flush Fitting Bezel

Synaps Technology Srl

Via Pietraferrata 9/1, Trieste 34147, Italy

Tel: 0039 0409896002 • Fax: 0039 040 3755361

E-mail: info@synaps-technology.com • Website: www.synaps-technology.com

Certificate No: 959a to EN 54-11: 2001 + A1: 2005

Certificated Products

		LPCB Ref. No.
SyCALL R6847L CWC99	Conventional Type A Indoor Manual Call Point Conventional Type A Outdoor Manual Call Point	959a/01 959a/02

Ancillaries

Ancillaries:
Deep Back Box
Safety Cover
Wall Flush Mount Plate (white only) and External Trim Frame (white only)
CALL-105_A Back Box for Wall Mounting
CALL-190_A Wall Mount Plate (60mm) for Semi-Flush Mounting
CALL-125_A Safety Cover

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom

Tel: +44 (0)207 514 5813

E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010bh-(cl-5) to EN 54-11:2001 + A1:2005 & EN 54-17:2005

Certificate No: 512f-(cl-5) to EN 54-11: 2001 + A1: 2005

Manual Call Points

Certificated Products

		LPCB Ref. No.
5000-700	Syncoln Addressable Manual Call Point with Isolator (5000-702 Bracket and 5000-710 Back Box)	010bh/01
SYN 4000-200	Conventional Manual Call Point with Flashy LED and Transparent Cover	512f/04

Ancillaries

5000-702 Mounting Bracket
5000-710 Back Box

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom
Tel: +44 8451162945
E-mail: info@tanda.com • Website: www.tanda.com

Certificate No: 1330g-(cl-1) to EN 54-11:2001 + A1:2005

Certificated Products

TX7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	LPCB Ref. No. 1330g/01
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Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore
Tel: +86013223307015
E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330g-(cl-4) to EN 54-11: 2001 + A1: 2005

Certificated Products

TX7140	Intelligent Analogue Addressable Type A Indoor Surface Mounted Manual Call Point	LPCB Ref. No. 1330g/01
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Teletek Electronics JSC

14A Srebarna Street, Sofia 1407, Bulgaria
Tel: +359 2 9694 700 • Fax: +359 2 9625 213
E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139f to EN 54-11: 2001 +A1:2005 & EN 54-17: 2005

Certificated Products

SensolRIS MCP150	Intelligent Analogue Addressable Fire Alarm Type A Indoor Manual Call Point with built-in Short Circuit Isolator Module <i>Note:</i> 1. Approved to Type A Indoor only	LPCB Ref. No. 1139f/01
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Thorn Security Limited, trading as Tyco Safety Products

Dunhams Lane, Letchworth SG6 1BD, United Kingdom
Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777
E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 166b to EN 54-11: 2001 + A1: 2005

Certificated Products

MCP200	Indoor surface/flush mounting conventional call point	LPCB Ref. No. 166b/41
MCP210	Indoor surface/flush mounting conventional call point	166b/41
MCP250M	Indoor/outdoor surface/flush mounting conventional call point Marine model	166b/41
MCP230	Outdoor surface mounting conventional waterproof call point	166b/53
MCP260M	Outdoor surface mounting conventional waterproof call point Marine model	166b/53

PART 1: SECTION 5

MANUAL CALL POINTS

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, Schaffhausen 8212, Switzerland

Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777

E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 166k-(cl-1) to EN 54-11:2001 + A1:2005, EN 54-17:2005

Certificate No: 681ab-(cl-1) to EN 54-11:2011 + A1:2005, EN 54-17:2005

Certificated Products		LPCB Ref. No.
MCP830	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator <i>Note:</i> <i>Approved with glass and flexible element options</i>	681ab/01
FC421CP-I	FireClass Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator <i>Note:</i> <i>Approved with glass and flexible element options</i>	681ab/01
MCP830M	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Marine Version) <i>Note:</i> <i>Approved with glass element only option</i>	681ab/02
MCP820	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator <i>Note:</i> <i>Approved with glass and flexible element options</i>	166k/01
FC420CP-I	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator <i>Note:</i> <i>Approved with glass and flexible element options</i>	166k/01
MCP820M	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Marine Version) <i>Note:</i> <i>Approved with glass element only option</i>	166k/02
4099-5211	Simplex Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator <i>Note:</i> <i>Approved with glass and flexible element options</i>	681ab/01
4099-5210	Simplex Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator <i>Note:</i> <i>Approved with glass and flexible element options</i>	166k/01
MCP820 (514.800.611.CN)	Indoor Surface/Flush Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Chinese version) <i>Note:</i> <i>Approved with glass and flexible element options</i>	166k/01
MCP830 (514.800.612.CN)	Outdoor Surface Mounting Analogue Addressable Type A Call Point with Short Circuit Isolator (Chinese version) <i>Note:</i> <i>Approved with glass and flexible element options</i>	681ab/01

UTC Fire & Security BV

Kelvinstraat 7, NL-6003DH, Weert, The Netherlands

Tel: + 31 495 58 30 00 • Fax: + 31 495 55 00 42

E-mail: David.Perez@fs.utc.com • Website: www.utcfireandsecurity.com

Certificate No: 1062e to EN 54-11:2001 + A1:2005

Certificated Products		LPCB Ref. No.
ZP785-3	Analogue Addressable Type A Indoor Manual Call Point Accessories:	1062e/01

Certificated Products	LPCB Ref. No.
<p>DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element ZP785-3S30 Analogue Addressable Type A Indoor Manual Call Point (Branded as Chubb)</p>	1062e/01
<p>Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element EA-785-3 Analogue Addressable Type A Indoor Manual Call Point (Branded as EST)</p>	1062e/01
<p>Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element CL785-3 Analogue Addressable Type A Indoor Manual Call Point (Branded as Clymac)</p>	1062e/01
<p>Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element ZP785-3S-SW Analogue Addressable Type A Indoor Manual Call Point (Branded as Ziton)</p>	1062e/01
<p>Accessories: DMN787 Surface mounting box with earth terminal, red DMN790 Flush mount cradle with connectors DMN795 Flush mount cradle with connectors and forkgrrips DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element ZP787-3 Analogue Addressable Type A Outdoor Manual Call Point</p>	1062e/02
<p>Accessories: DMN782 Hinged transparent MCP protection cover DMN715 EN 54 universal MCP glass DMN784 Call point test key DMN800 Resettable element</p>	

UTC Fire & Security Inc. Trading as Edwards Systems Technology

8985 Town Center Parkway, Bradenton, Florida 34202, USA

Tel: 941-739-4214 • Fax:

E-mail: sean.hawes@carrier.com • Website: www.ccs.utc.com

Certificate No: 1255c-(cl-1) to EN 54-11: 2001 + A1: 2005

Certificated Products	LPCB Ref. No.
SIGI-271 Digital Addressable Indoor Manual Call Point, Surface or Flush Mounted	1255c/01

PART 1: SECTION 5

MANUAL CALL POINTS

Accessories:

KAC SR3T-P Surface mounted box

KAC ETTI-P Flush mounted box

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles

Tel: 008613581542023

E-mail: vgreatch@hotmail.com

Certificate No: 1174d-(cl-1) to EN 54-11:2001 + A1:2005

Manual Call Point

Certificated Products

VG-6653

Conventional Resettable Type A Indoor Manual Call Point

VG-6657

Addressable Resettable Type A Indoor Manual Call Point

LPCB Ref.

No.

1174d/01

1174d/02

Videofon Guvenlik Teknolojileri A.S.

Videofon Plaza, Gursel Mah, Kagithane Cad. No. 40, Kagithane, Istanbul 34400, Turkey

Tel: +902123208560

E-mail: alp@videofon.com.tr • Website: www.videofon.com.tr

Certificate No: 512f to EN 54-7:2000 + A1:2002 + A2:2006

Manual Call points

Certificated Products

FX-105/FIREMAX

Conventional Manual Call Point with Flashy LED and Transparent Cover (EM921B1, Mounting base)

LPCB Ref.

No.

512f/04

Accessories

EM921B1 Regular mounting base, 28mm

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey

Tel: 0090 549 797 70 80

E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426d-(cl-1) to EN 54-11:2001 + A1: 2005

Certificated Products

VI 200-CP

Intelligent Addressable Manual Call Point

LPCB Ref.

No.

1426d/01

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China

Tel: 0417-2607119 • Fax: 0417-2867119

E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450e to EN 54-11:2001 + A1: 2005

Certificated Products

J-SAP-TCSB5264 Indoor Analogue Addressable Type A Re-settable Manual Call Point

LPCB Ref. No.
1450e/01

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghassan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 653a-(cl-1) to EN 54-11: 2001 + A1: 2005
Certificate No: 330m to EN 54-11: 2001, EN 54-17: 2005

Certificated Products

ZT-CP3 Conventional Type A Re-Settable Indoor Flush/Surface Manual Call Point.
Notes:

1. Flush mount approved model ZT-CP3/F (M200)
2. Surface mount approved model ZT-CP3 (M223)
3. Flush mount approved model RP-RF2-01/GLT (M200/V2)
4. Surface mount approved model RP-RS2-01/GLT (M223/V2)
5. Approved colour, red only

ZT-CP3/AD Addressable Indoor Type A Manual Call Point with Short Circuit Isolator

LPCB Ref. No.
653a/01

330m/01

Accessories

M200 Wall Plate
M223 Back Box
M200/V2 Wall Plate
M223/V2 Back Box

PART 1: SECTION 6

LINE UNITS

A Line Unit is the term given to define devices used for functions other than fire detection, which are connected to a fire detection and alarm system transmission path or within other components of the fire detection and alarm system e.g. inside Control and Indicating Equipment. For example, the following devices may be regarded as Line Units:

- short circuit isolators
- input/output interfaces

Short-circuit isolators are used to limit the consequences of low parallel resistance faults between the lines of a transmission path of a fire detection and fire alarm system. The transmission path is normally in a loop configuration which is separated into sections by the short circuit isolators, such that a detected fault in a particular section will isolate that particular section allowing other components in other sections on the loop to function correctly.

Input/output devices are intended for different applications, and may therefore have different functions. Their functions are specified by the manufacturer and they are tested and approved against this specification.

This section lists approved Line Units which are connected to a fire detection and alarm system. The initial approval and continued approval processes for Line Units are outlined in scheme document SD038.

Products listed in this section have been approved to:

- EN 54-17: 2005 *Short-circuit isolators*
- EN 54-18: 2005 *Input/output devices*
- EN 54-25: 2008 *Components using radio links*

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. It is recommended that short circuit isolators and input/output devices are certificated to EN 54-17: 2005 and EN 54-18: 2005 respectively. EN 54-17: 2005 and EN 54-18: 2005 are now harmonised standards for the Construction Products Directive and CE marking is required for most of the European market by 1 December 2008. It is therefore recommended that devices are certificated to EN 54-17: 2005 or EN 54-18: 2005 where applicable as soon as possible.
2. EN 54-25: 2008 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 1 March 2011. It is therefore recommended that radio link components are certificated to EN 54- 25: 2008
3. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom

Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222

E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928n-(cl-1) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificate No: 928r-(cl-1) to EN 54-18: 2005 and EN 54-25: 2008

Certificated Products

20-VW2W100-ADV	Wire to wireless translator module
20-SGCWE100-ADV	Wireless conventional system Expander module

LPCB Ref. No.
928n/01
928r/01

Certificated Products

		LPCB Ref. No.
20-SGWE100-ADV	Wireless Expander module	928r/02
20-SGMCB200-ADV	Wireless Battery Powered Output Module Note:1. The device must be used with the following batteries only: -CR123A (3Vdc) - Main Battery -CR123A (3Vdc) Secondary Battery	928r/03
20-SGMI200-ADV	Wireless Battery Powered Input Module Note:1. The device must be used with the following batteries only: -CR123A (3Vdc) - Main Battery -CR2032A (3Vdc) Secondary Battery	928r/04

Advantronic Systems S.L.

C/Yunque 9 Nave B1, Tres Cantos, Madrid 28760, Spain

Tel: +34 91 806 2343 • Fax: +34 91 803 1171

E-mail: jpedrouzo@advantronic.es • Website: www.advantronic.es

Certificate No: 928n-(cl-2) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificate No: 928r-(cl-2) to EN 54-18: 2005 and EN 54-25: 2008

Certificated Products

		LPCB Ref. No.
AVW190AL	Wire to wireless translator module	928n/01
AVW191AL	Wireless conventional system Expander module	928r/01
AVW192AL	Wireless Expander module	928r/02

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates

Tel: +971 42630396 • Fax: +971 42630397

E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174h-(cl-1) to EN 54-18:2005

Certificate No: 1174g-(cl-1) to EN 54-17:2005

Line Units**Certificated Products**

		LPCB Ref. No.
SI-6717	Addressable Resettable Type A Indoor Manual Call Point (branded as SECURE)	1174h/01
SI-6727	Addressable Control Interface (1 Input & 1 Output) (SB-6618 Base) (branded as SECURE)	1174h/02
SI-6777	Addressable Isolator Interface (SB-6618 base) (branded as SECURE)	1174g/01

Bases

SB-6618 Installation base

Ampac Pty Ltd

7 Ledger Road, Balcatta 6021, Australia

Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334

E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010aa-(cl-3) to EN 54-17: 2005

Certificate No: 010ag-(cl-2) to EN54-18: 2005

Certificate No: 010ah-(cl-5) to EN 54-17:2005 and EN 54-18:2005

Certificated Products

		LPCB Ref. No.
45681-518AMP	Enhanced deep isolating base (Red)	010aa/08
45681-245AMP	Conventional standard relay base	010ag/02

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
55000-845AMP	Analogue Addressable Zone Monitor Unit with Isolator	010ah/05
55000-852AMP	Analogue Addressable Sounder Controller with Isolator	010ah/08
55000-760AMP	Analogue Addressable Mini Switch Monitor with Isolator	010ah/09
SA4700-100AMP	Soteria Switch Monitor Unit (45681-400 Backbox)	010ah/11
SA4700-300AMP	Soteria DIN Switch Monitor Unit (38532-092 DIN Tub)	010ah/12
SA4700-102AMP	Soteria Input/Output Unit (45681-400 Backbox)	010ah/13
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
SA4700-302AMP	Soteria DIN Input/Output Unit (38532-092 DIN Tub)	010ah/14
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
SA4700-103AMP	Soteria Mains Input/Output Unit (45681-400 Backbox)	010ah/19
SA4700-104AMP	Soteria Twin Input/Output Unit (45681-400 Backbox)	010ah/21
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
SA6700-100AMP	Soteria Twin Switch Monitor Unit (45681-400 Backbox)	010ah/22

Bases:

45681-517AMP Enhanced deep isolating bases (White)

45681-518AMP Enhanced deep isolating bases (Red)

45681-400 Backbox

38532-092 DIN Tub

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom

Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754

E-mail: enquiries@apollo-fire.co.uk

Sales Enquiries Germany

Apollo Deutschland GmbH

Tel: +49 5241 330 60 • Fax: +49 5241 330 629

E-mail: info@apollo-feuer.de

Sales Enquiries Spain,

Apollo Espana

Tel: +34 627 988 061 • Fax: +34 949 335 289

E-mail: apollo.espana@apollo-fire.com

Sales Enquiries China,

Apollo Fire Detectors Limited,, Shanghai representative office

Tel: +86 21 5237 0922 • Fax: +86 21 5237 0920

E-mail: tony.ye@apollo-fire.com

Certificate No: 010aa to EN 54-17:2005

Certificate No: 010ag to EN54-18: 2005

Certificate No: 010ah to EN54-17: 2005 & EN54-18: 2005

Certificated Products		LPCB Ref. No.
45681-284	XP95/Discovery short circuit isolating base	010aa/01
55000-588	XP95 analogue addressable 3 channel input/output unit with isolator	010ah/01
55000-841	XP95 analogue addressable switch monitor plus with isolator	010ah/03
55000-845	XP95 analogue addressable zone monitor unit with isolator	010ah/05
55000-847	XP95 analogue addressable input/output unit with isolator	010ah/06
55000-852	XP95 analogue addressable sounder controller with isolator	010ah/08
55000-720	XP95 20D negative short circuit isolator (45681-211 Base)	010aa/05

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
55000-802	XP95 analogue addressable DIN-rail dual isolator	010aa/06
55000-812	XP95 analogue addressable DIN-rail zone monitor	010ah/02
55000-181	XP95 analogue addressable DIN-rail 8A sounder controller unit	010ag/07
55000-182	XP95 analogue addressable DIN-rail sounder control unit	010ag/08
55000-855	XP95 analogue addressable DIN-rail protocol translator - single <i>Note: to ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.</i>	010ag/14
55000-856	XP95 analogue addressable DIN-rail protocol translator - dual <i>Note: to ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.</i>	010ag/15
55000-760	XP95/Discovery Analogue addressable mini switch monitor with isolator	010ah/09
45681-518	Enhanced deep isolating base (Red)	010aa/08
45681-242	XP95 analogue addressable low power relay base	010ag/01
45681-245	S65 conventional standard relay base	010ag/02
45681-246	S65 conventional auxiliary relay base	010ag/03
45681-247	S65 conventional end of line 12V relay base	010ag/04
45681-248	S65 conventional end of line 24V relay base	010ag/05
45681-508	S65 conventional 12V relay base	010ag/06
ORB-RB-10004	Orbis TimeSaver relay base	010ag/17
ORB-SW-10005	Orbis Sav-wire base	010ag/18
55000-797	XP95 analogue addressable DIN-rail mains input/output unit <i>Note: to ensure compliance is maintained, this device shall be installed within an enclosure weighing greater than 4.75kg.</i>	010ag/09
55000-864	XP95 analogue addressable locally powered zone monitor unit with isolator	010ah/10
SA4700-100	Intelligent Switch Monitor (45681-400 Backbox)	010ah/11
SA4700-300	Intelligent DIN-Rail Switch Monitor (38532-092 DIN Tub)	010ah/12
SA4700-102	Intelligent Input/Output Unit (45681-400 Backbox) <i>Note:</i> <i>1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z</i>	010ah/13
SA4700-302	Intelligent DIN-Rail Input/Output Unit (38532-092 DIN Tub) <i>Note:</i> <i>1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z</i>	010ah/14
SA4700-103	Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	010ah/19
SA4700-403	Intelligent DIN-Rail Mains Switching Input/Output Unit (38532-091 DIN Tub) <i>Note:</i> <i>1. This device to be installed within an enclosure weighing greater than 4.75kg.</i>	010ah/20
SA4700-104	Intelligent Twin Input/Output Unit (45681-400 Backbox) <i>Note:</i> <i>1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z</i>	010ah/21
SA6700-100	Intelligent Twin Switch Monitor (45681-400 Backbox)	010ah/22
SA5300-320	Base Visual Indicator (White Flash) (SA5000-200 Base)	010aa/11
SA5300-321	Base Visual Indicator (Red Flash) (SA5000-200 Base)	010aa/12
SA5501-320	Intelligent Open Area Visual Indicator (White Flash, White Body) (SA5000-200, SA5000-202 and 45681-210)	010aa/09
SA5501-321	Intelligent Open Area Visual Indicator (Red Flash, White Body) (SA5000-200, SA5000-202 and 45681-210)	010aa/10
Ancillaries		
45681-211	XP95 Isolator Base	
45681-400	Intelligent Interface Backbox	
38532-092	Interface Small DIN Tub	
38532-091	Interface Large DIN Tub	
SA5000-200	XPERT8 (White) Intelligent Base	
SA5000-202	XPERT8 (Red) Intelligent Base	
45681-210	Intelligent Mounting Base	

PART 1: SECTION 6

LINE UNITS

Argus Security S.r.l.

Via del Canneto 14, Valle delle Noghere, 34015 Muggia, Trieste, Italy

Tel: +39 (0) 402821110 • Fax: +39 (0) 402823483

E-mail: dcresseri@argussecurity.it • Website: www.argussecurity.it

Certificate No: 928n to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificate No: 928r to EN 54-18: 2005 and EN 54-25: 2008

Certificated Products

		LPCB Ref. No.
VW2W100	Wire to wireless translator module	928n/01
SGCWE100	Wireless conventional system Expander module	928r/01
SGWE100	Wireless Expander module	928r/02
VW2W128	Wire to Wireless Dynamic Translator Module	928r/05
SGMCB200	Wireless Battery Powered Output Module	928r/03
	Note:	
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) - Main Battery	
	- CR123A (3Vdc) - Secondary Battery	
SGMI200	Wireless Battery Powered Input Module	928r/04
	Notes:	
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) - Main Battery	
	- CR2032A (3Vdc) - Secondary Battery	

Argus Spectrum International

65 Serdobolskaya St, St. Petersburg 197342, Russian Federation

Tel: +7 812 7037500 • Fax: +7 812 7037501

E-mail: mail@argusspectrum.com • Website: <https://argusspectrum.com>

Certificate No: 603p to EN 54-18:2005 & EN 54-25:2008

Certificate No: 603q to EN 54-17:2005, EN 54-18:2005 & EN 54-25:2008

Certificated Products

		LPCB Ref. No.
ARG-WL8-OUT	Wireless Single Output Module	603p/01
	Note:	
	1. The device must be used with the following batteries only:	
	- Primary CR123A (3V)	
	- Secondary CR123A (3V)	
ARG-WL8-IN	Wireless Single Input Module	603p/02
	Note:	
	1. The device must be used with the following batteries only:	
	- Primary CR123A (3V)	
	- Secondary CR2032 (3V)	
ARG-WL8-EXP	Wireless Expander Module	603p/03
ARG-WL8-TRV	Wireless Translator Module	603q/01
ARG-WL8-TRH	Wireless Translator Module	603q/02

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom

Tel: +8613828765759

E-mail: info@asenware.com

Certificate No: 1426e-(cl-3) to EN 54-18:2005

Certificate No: 1426f-(cl-3) to EN 54-17:2005

Line Units**Certificated Products**

AW-D319 Addressable I/O Module
 AW-D314 Loop Isolator

**LPCB Ref.
 No.**
 1426e/01
 1426f/01

Base

DZ -9056
 DZ-9057

ASI Oy Ltd (Argus Spectrum International)

Laitaatsillantie 3, Savonlinna 57170, Finland

Tel: +358 20 730 8550

E-mail: mail@argusspectrum.com • Website: <https://argusspectrum.com/>

Certificate No: 1571k to EN 54-18:2005 & EN 54-25:2008

Certificate No: 1571j to EN 54-17:2005, EN 54-18:2005 & EN 54-25:2008

Line Units**Certificated Products**

ARF-WL8-EXP Wireless Expander Module
 ARF-WL8-TRV Wireless Translator Module
 ARF-WL8-OUT Wireless Single Output Module

**LPCB Ref.
 No.**
 1571k/01
 1571j/01
 1571k/03

Note:

1. The device must be used with the following batteries only:

- Primary CR123A (3V)

- Secondary CR123A (3V)

ARF-WL8-TRH Wireless Translator Module
 EK-WL8-TRH (EKHO Brand) Wireless Translator Module
 EK-WL8-EXP (EKHO Brand) Wireless Expander Module
 EK-WL8-OUT (EKHO Brand) Wireless Single Output Module

1571j/02
 1571j/02
 1571k/01
 1571k/03

Note:

1. The device must be used with the following batteries only:

- Primary CR123A (3V)

- Secondary CR123A (3V)

ARF-WL8-IN Wireless Single Input Module

1571k/02

Note:

1. The device must be used with the following batteries only:

- Primary CR123A (3V)

- Secondary CR2032 (3V)

EK-WL8-IN (EKHO Brand) Wireless Single Input Module

1571k/02

Note:

1. The device must be used with the following batteries only:

- Primary CR123A (3V)

- Secondary CR2032 (3V)

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates

Tel: +971 4 3262730 • Fax: +971 4 3262731

E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 928n-(cl-4) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificate No: 928r-(cl-4) to EN 54-18: 2005 and EN 54-25: 2008

Certificated Products

VELOX WLTM100 Wire to wireless translator module
 VELOX WLCM100 Wireless conventional system Expander module
 VELOX WLEM100 Wireless Expander module

**LPCB Ref.
 No.**
 928n/01
 928r/01
 928r/02

PART 1: SECTION 6

LINE UNITS

Certificate No: 1154j to EN 54-17: 2005 and EN 54-18: 2005

Certificated Products

		LPCB Ref. No.
VELOX 40100	Addressable Single Supervised Input Module	1154j/01
VELOX 40010	Addressable Single Supervised Output Module	1154j/02
VELOX 40002	Addressable Dual Form C Relay Output Module	1154j/03
VELOX 40110	Addressable Single Supervised Input & Output Module	1154j/04
VELOX 40102	Addressable Supervised Input & Relay Output Module	1154j/05
VMI100	Addressable Single Supervised Input Module	1154j/01
VMC100	Addressable Single Supervised Output Module	1154j/02
VMC120	Addressable Dual Form C Relay Output Module	1154j/03
VMIC100	Addressable Single Supervised Input & Output Module	1154j/04
VMIC120	Addressable Supervised Input & Relay Output Module	1154j/05

Autronica Fire & Security AS

Postboks 5620 NO-7483, Trondheim, Norway

Tel: +47 73582500 • Fax: +47 73582501

E-mail: info@autronicafire.no • Website: www.autronicafire.no

Certificate No: 378g-(cl-1) to EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
116-BBL-100	Addressable indoor beacon with isolator Notes: 1) the beacon functionality is not included within the scope of this approval	378g/01
116-BBL-100/IP	Addressable outdoor beacon with isolator Notes: 1) the beacon functionality is not included within the scope of this approval	378g/02

Beijing Leader Huaxin Electronics Co. Ltd

No. 17 Rongjing Eastern Road, Economy & Technology Developed Area, Beijing 100176, China

Tel: +86 10 67876681 • Fax: +86 10 67863972

E-mail: hy.chen@beijingleader.com.cn • Website: www.beijingleader.com.cn

Certificate No: 987c to EN 54:18:2005

Certificated Products

		LPCB Ref. No.
LD6800EC-1	Analogue Addressable Input/ Output Module	987c/01
LD6800ED-1	Analogue Addressable Input/Output Module (LD60(ED) Module Base)	987c/02
LD60(N) Module Base		
LD60(ED) Module Base		

Beijing VSAIL Fire Protection Equipment Co Ltd

No. 401, Unit A, Building 32., No. 99 14th Kechuang Street, BDA, Beijing 100176, China

Tel: +86 10-56691196 • Fax: +86 10-56691100

E-mail: erichenx@vsail.com.cn • Website: www.vsail.com.cn

Certificate No: 1174g to EN 54-17:2005

Certificate No: 1174h to EN 54-18:2005

Certificated Products

		LPCB Ref. No.
VI-6777	Addressable Isolator Interface (VB-6618 base)	1174g/01
VI-6717	Addressable Monitor Interface (1 Input) (VB-6618 Base)	1174h/01
VI-6727	Addressable Control Interface (1 Input & 1 Output) (VB-6618 Base)	1174h/02

VB-6618 Installation Base

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates

Tel: +971 4 347 2426 • Fax: +971 4 347 2363

E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1330e-(cl-2) to EN 54-18:2005

Certificate No: 1330f-(cl-2) to EN 54-17:2005

Certificated Products

		LPCB Ref. No.
IM-8412	Addressable Single Input/Output Module	1330e/01
IM-8414	Analogue Addressable Isolator Module	1330f/01

Ceasefire Industries Private Ltd

E6, Upside Industrial Area., Selaqui, Dehradun, Uttarakhand 24001, India

Tel: +911204223473

E-mail: amit@ceasefire.in

Certificate No: 928n-(cl-9) to EN 54-17: 2005, EN 54-18:2005 & EN 54-25: 2008

Certificate No: 928r-(cl-10) to EN 54-18:2005 & EN 54-25: 2008

Certificated Products

		LPCB Ref. No.
TI-002280A	Wire to Wireless Translator Module	928n/01
TI-002283A	Wireless Conventional System Expander Module	928r/01
TI-002282A	Wireless Expander Module	928r/02
TI-002255A	Wireless Battery Powered Output Module	928r/03
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) Main Battery	
	- CR123A (3Vdc) Secondary Battery	
TI-002253A	Wireless Battery Powered Input Module	928r/04
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) Main Battery	
	- CR2032A (3Vdc) Secondary Battery	

PART 1: SECTION 6

LINE UNITS

Chubb Fire & Security Ltd

Littleton Road, Ashford, Middlesex TW15 1TZ, United Kingdom

Tel: 01784424100

E-mail: sales@chubb.co.uk • Website: www.chubb.co.uk

Certificate No: 010ah-(cl-3) to EN 54-18: 2005 and EN54 -17: 2005

Certificated Products

		LPCB Ref. No.
F850429N	XP95 analogue addressable switch monitor plus with isolator	010ah/03
F3170135N	XP95 analogue addressable zone monitor unit with isolator	010ah/05
F850352N	XP95 analogue addressable input/output unit with isolator	010ah/06
F3170138N	XP95 analogue addressable sounder controller with isolator	010ah/08

Compuionics Limited (Trading as C-Tec)

Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom

Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867

E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176j to EN 54-17:2005, EN 54-18:2005

Certificated Products

		LPCB Ref. No.
CA734	CAST Mini I/O Module	176j/01
CA730	CAST Zone Input Relay Output Module	176j/02
CA731	CAST Zone Input Mains Relay Output Module	176j/03
CA732	CAST Zone Input Module	176j/04
HP734	HP Mini I/O Module with Short Circuit Isolator (Fire Level 1)	176j/01
HP735	HP Mini I/O Module with Short Circuit Isolator (Fire Level 2)	176j/01
HP731	HP Mains Switching I/O Module with Short Circuit Isolator (Fire Level 1)	176j/03
HP732	HP Mains Switching I/O Module with Short Circuit Isolator (Fire Level 2)	176j/03

Accessories:

White Plastic Back Box

Context Plus Ltd

Export House, 175 Mauldeth Road, Fallowfield, Manchester M14 6SG, United Kingdom

Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817

E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 010ap-(cl-2) to EN 54-17: 2005

Certificate No: 010ah-(cl-6) to EN 54-18: 2005 and EN 54-17: 2005

Certificate No: 010aa-(cl-7) to EN 54-17:2005

Certificated Products

		LPCB Ref. No.
45681-505IMC	Negative switching isolating base	010ap/01
55000-845IMC	Analogue addressable zone monitor with isolator	010ah/05
55000-852IMC	Analogue addressable sounder control unit with isolator	010ah/08
SA4700-100IMC	Switch Monitor (45681-400 Backbox)	010ah/11
SA4700-102IMC	Input/Output Unit (45681-400 Backbox)	010ah/13
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
SA4700-103IMC	Mains Switching Input/Output unit (45681-400 Backbox)	010ah/19
SA4700-104IMC	Twin Input/Output Unit (45681-400 Backbox)	010ah/21
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
SA6700-100IMC	Twin Switch Monitor (45681-400 Backbox)	010ah/22

Certificated Products

45681-518IML Enhanced Deep Isolating Base (Red)

LPCB Ref.
No.
010aa/08

45681-400 Backbox

DEF

7, rue du Saule Trapu, MASSY 91300, France

Tel: +33 (0) 160136772

E-mail: frederic.chateau@coflec.com

Certificate No: 1549a-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificated ProductsETCL Addressable Input / Output Module with Short Circuit Isolator
ETCL-B Addressable Input / Output Module with Short Circuit Isolator
ETC230L-B Addressable Input / Output Module with Short Circuit IsolatorLPCB Ref.
No.
1549a/01
1549a/02
1549a/03**Elite Security Products (ESP)**

Unit 7, Target Park, Shawbank Road, Redditch, Birmingham B98 8YN, United Kingdom

Tel: +44 (0)1527 515150

E-mail: info@espu.com • Website: https://www.espu.com/

Certificate No: 331k-(cl-1) to EN 54-18:2005

Certificated Products

MAGDUOIOR MAGDUO Interface Module

LPCB Ref.
No.
331k/01**Eurotech Fire Systems Limited**

19/20 Stratfield Park, Elettta Avenue, Waterlooville, Hampshire PO7 7XN, United Kingdom

Tel: +44 (0)203 141 0999 • Fax: +44 (0)239 225 2554

E-mail: MICHELLE.AGIUS@eurotechfire.com • Website: www.eurotechfire.com

Certificate No: 1213f to EN 54-17: 2005

Certificate No: 1213g to EN 54-18: 2005

Certificate No: 1213h to EN 54-18: 2005 and EN 54-17: 2005

Certificate No: 1213u to EN 54-17:2005, EN 54-18:2005 & EN 54-25: 2008

Certificate No: 1213v to EN 54-18:2005 & EN 54-25: 2008

Line Units**Certificated Products**

200-113	Odyssey Short Circuit Isolating Base	1213f/01
200-504	Odyssey 20D Negative Short Circuit Isolator (200-112 Base)	1213f/02
200-307	Odyssey Enhanced Deep Isolating Base (Red)	1213f/03
200-303	Odyssey Conventional Standard Relay Base	1213g/01
200-203	Odyssey Analogue Addressable Zone Monitor Unit with Isolator	1213h/03
200-204	Odyssey Analogue Addressable Input/Output Unit with Isolator	1213h/04
200-206	Odyssey Analogue Addressable Sounder Controller with Isolator	1213h/06
200-201	Odyssey Analogue Addressable Mini Switch Monitor with Isolator	1213h/07
200-207	Odyssey Analogue Addressable Locally Powered Zone Montior Unit with Isolator	1213h/08
EUW-W2W-01	Euro-Fi Wireless Translator Module	1213u/01
EUW-CEM-02	Wireless to Conventional Expander Module	1213v/01
EUW-EM-01	Euro-Fi Wireless Expander Module	1213v/02
EUW-IM-01	Wireless Single Channel Input Module	1213v/03

LPCB Ref.
No.

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
	<i>Note:</i> 1. The device must be used with the following batteries only: - CR123A (3Vdc) - Main Battery - CR2032A (3Vdc) - Secondary Battery	
EUW-BOM-01	Wireless Single Channel Battery Powered Output Module	1213v/04
	<i>Note:</i> 1. The device must be used with the following batteries only: - CR123A (3Vdc) - Main Battery - CR123A (3Vdc) - Secondary Battery	
200-202SA	Odyssey Intelligent Switch Monitor (45681-400 Backbox)	1213h/09
200-204SA	Odyssey Intelligent Input/Output Unit (45681-400 Backbox)	1213h/10
200-208SA	Odyssey Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	1213h/11
200-209SA	Odyssey Intelligent Twin Input/Output Unit (45681-400 Backbox)	1213h/12
200-210SA	Odyssey Intelligent Twin Switch Monitor (45681-400 Backbox)	1213h/13

Bases:

200-112 Odyssey isolator base
45681-400 Backbox

Fike Safety Technology Ltd

Unit 31, Springvale Industrial Estate, Cwmbran, Gwent NP44 5BD, United Kingdom
Tel: +44 (0)1633 865558 • Fax: +44 (0)1633 866656
E-mail: fstinfo@fike.com • Website: www.fikesafetytechnology.co.uk

Certificate No: 331m to EN 54-17: 2005 & EN 54-18: 2005
Certificate No: 331k to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
803-0006	Sita Input/Output Module	331m/01
802-0006	Twinflex I/O Module	331k/01
803-0010	Sita Conventional Zone Module	331k/02

Finder Elektronik A.S.

Liman Mah., 6. Sok., No: 10 07070, Konyaalti, Antalya, Turkey
Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88
E-mail: finder@finder.com.tr • Website: www.finder.com.tr

Certificate No: 928n-(cl-5) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
FF VW2W100	Wire to wireless translator module	928n/01

Finder Yangın Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450b-(cl-1) to EN 54-18: 2005

Certificated Products		LPCB Ref. No.
FF MIC500	Intelligent Addressable Single Input/Output Module	1450b/01

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates

Tel: 00971-4-2554494

E-mail: mutasem@firefighterco1.ae

Certificate No: 1174h-(cl-4) to EN 54-18: 2005

Certificate No: 1174g-(cl-4) to EN 54-17:2005

Line Units**Certificated Products**

		LPCB Ref. No.
FST-6717	Addressable Monitor Interface (1 Input) (FST-6618 Base) (branded as FST)	1174h/01
FST-6727	Addressable Control Interface (1 Input & 1 Output) (FST-6618 Base) (branded as FST)	1174h/02
FST-6777	Addressable Isolator Interface (FST-6618 base) (branded as FST)	1174g/01

Bases

FST-6618 Installation base

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom

Tel: 01253 699500 • Fax: 01253 699550

E-mail: info@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 928n-(cl-7) to EN 54-17: 2005, EN 54-18: 2005 & EN 54-25: 2008

Certificate No: 928r-(cl-7) to EN 54-18: 2005 & EN 54-25: 2008

Line Units**Certificated Products**

		LPCB Ref. No.
FSRT2	Wireless Translator Module	928n/01
FSRCIM2	Wireless to Conventional Interface Module	928r/01
FSREM2	Wireless Expander Module	928r/02
FSRPOM2	Wireless Single Channel Powered Output Module	928r/03
	<i>Note:</i>	
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) - Main Battery	
	- CR123A (3Vdc) - Secondary Battery	
FSRIM2	Wireless Single Channel Input Module	928r/04
	<i>Note:</i>	
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) - Main Battery	
	- CR2032A (3Vdc) - Secondary Battery	

FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom

Tel: 00971 653 40300 • Fax: 00971 653 40090

E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548m-(cl-3) to EN54-18: 2005

Certificate No: 548n-(cl-3) to EN54-17: 2005

Certificated Products

		LPCB Ref. No.
FX9300I	Analogue Addressable Input Module	548m/01
FX9301I	Analogue Addressable Single Output Module	548m/02
	<i>Notes:</i>	

PART 1: SECTION 6

LINE UNITS

Certificated Products

		LPCB Ref. No.
	1. 4 Wire Mode, 24v active output (Default).	
	2. 2 Wire Mode, volt free changeover contact output.	
	Loop Isolator (B-9310 Back Box)	548n/04
FX9503E	Base Mount Isolator	548n/03
FX9504E1	Addressable Digital Single Input Module	548m/04
FXI9300E	Addressable Digital Single Input and Output Module	548m/05
FXI9301E	Addressable Digital Single Riser Output Module	548m/06
FXI9305E	Addressable Digital Zone Monitor Unit	548m/07
FXI9319E	Addressable Loop Isolator	548n/05
FX9503E1	Addressable Zone Monitor Unit	548m/03
FX9319I		

B-9310 Back Box

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom

Tel: 00447708000050

E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426e-(cl-5) to EN 54-18: 2005

Certificate No: 1426f-(cl-5) to EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
FRN 56	Intelligent Addressable Fire Alarm I/O Module (DZ-9056 Base)	1426e/01
FRN 57	Intelligent Addressable Fire Alarm Isolator Module (DZ-9057 Base)	1426f/01

Base

DZ-9056

DZ-9057

Gent By Honeywell (Novar Systems Ltd)

140 Waterside Road, Hamilton Industrial Park, Leicester LE5 1TN, United Kingdom

Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300

E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Middle East Sales Enquiries

E-mail: gent.export@honeywell.com

Line Units

Certificate No: 042ba to EN 54-17: 2005 & EN 54-18: 2005

Certificate No: 042bp to EN 54-18: 2005, EN 54-17: 2005 and EN 54-4: 1997 + A1: 2002 + A2: 2006

Certificated Products

		LPCB Ref. No.
S4-34410	Analogue addressable 1 input interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/01
S4-34411	Analogue addressable 1 output DIN rail mounting interface module with short circuit isolator, medium voltage.	042ba/02
S4-34415	Analogue addressable 1 output surface mounting interface module with short circuit isolator, medium voltage.	042ba/03
S4-34420	Analogue addressable 1 input and 1 output interface module with short circuit isolator,	042ba/04

Certificated Products

		LPCB Ref. No.
S4-34450	low voltage. (S4-34490 and S4-34492 boxes) Analogue addressable 4 input / output interface module with short circuit isolator, low voltage. (S4-34490 and S4-34492 boxes)	042ba/05
S4-34440-02	Mains powered Interface Unit (2Ah)	042bp/01
S4-34440-12	Mains powered Interface Unit (12Ah)	042bp/02

Accessories:
S4-34490 Plastic Box
S4-34492 Metal Box

Certificate No: 042bp to EN54-18:2005, EN54-17:2005, EN54-4:1997+A1:2002 + A2:2006

Approved Products

		LPCB Ref. No.
S4-34440-ASD	S4 ASD Mains Powered Interface Unit with Short Circuit Isolator	042bp/03

GEZE GmbH

Reinhold-Vöster-Str. 21-29, D-71229 Leonberg, Germany
Tel: +49 (0)7152-203-0 • Fax: +49 (0)7152-203-310
E-mail: c.lieske@geze.com • Website: www.geze.com

Certificate No: 928s-(cl-1) to EN 54-18: 2005

Certificated Products

		LPCB Ref. No.
GC150B	Non-latching relay base	928s/01

Gulf Security Technology Co., Ltd.

No 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province 066004, China
Tel: +86 0335 8502434 • Fax: +86 0335 8502532
E-mail: sales@carrier.com • Website: www.gst.com.cn

Certificate No: 548n to EN 54-17: 2005

Certificate No: 548m to EN 54-18: 2005

Certificated Products

		LPCB Ref. No.
I-9300	Analogue Addressable Input Module	548m/01
I-9301	Analogue Addressable Single Output Module	548m/02
	<i>Note:</i>	
	1. 4 Wire Mode, 24v active output (Default).	
	2. 2 Wire Mode, volt free changeover contact output.	
I-9319	Addressable Zone Monitor Unit	548m/03
C-9504	Base mount short circuit isolator	548n/02
DC-9504E	Base Mount Isolator	548n/03
C-9503E	Loop Isolator (B-9310 Back Box)	548n/04
DC-9503E	Addressable Loop Isolator	548n/05
DI-9300E	Addressable Digital Single Input Module	548m/04
DI-9301E	Addressable Digital Single Input and Output Module	548m/05
DI-9305E	Addressable Digital Single Riser Output Module	548m/06
DI-9319E	Addressable Digital Zone Monitor Unit	548m/07
DI-9302E	Addressable Digital High Voltage Relay Module	548m/08

Accessories:
B-9310 Back Box

PART 1: SECTION 6

LINE UNITS

Haes Technologies Limited

Unit 3, Horton Industrial Park, West Drayton, Middlesex UB7 8JD, United Kingdom

Tel: +44 (0)1895 546205 • Fax: +44 (0)1895 420603

E-mail: sales@haes.demon.co.uk • Website: www.haes--tech.com

Certificate No: 810e to EN 54-18: 2005 and EN 54-17: 2005

Certificate No: 810h to EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
55000-845HSL	XP95 Analogue Addressable Zone Monitor Unit with Isolator	810e/02
55000-847HSL	XP95 Analogue Addressable Input/Output Unit with Isolator	810e/03
55000-852HSL	XP95 Analogue Addressable Sounder Controller with Isolator	810e/04
55000-760HSL	XP95/Discovery Analogue Addressable Mini Switch Monitor with Isolator	810e/05
45681-284HSL	XP95/Discovery Short Circuit Isolating Base	810h/01
45681-518HSL	Enhanced Deep Isolating Base (Red)	810h/02

Hochiki Europe (UK) Limited

Grosvenor Road, Gillingham Business Park, Gillingham, Kent ME8 0SA, United Kingdom

Tel: +44 (0)1634 260133 • Fax: +44 (0)1634 260132

E-mail: info@hochikieurope.com • Website: www.hochikieurope.com

Certificate No: 164p to EN-54-18: 2005

Certificate No: 164q to EN 54-17:2005 & EN 54-18:2005

Certificate No: 164n to EN 54-17: 2005

Certificate No: 928r-(cl-6) to EN 54-18: 2005 and EN 54-25: 2008

Certificate No: 928t-(cl-1) to EN 54-18: 2005, EN 54-25: 2008

Certificated Products

		LPCB Ref. No.
CHQ-SZM/OEM(SCI)	Intelligent Analogue Addressable Single Zone monitor with Short Circuit Isolator	164q/01
CHQ-SZM/DIN(SCI)	Intelligent Analogue Addressable Single Zone monitor with Short Circuit Isolator (DIN rail version)	164q/02
CHQ-DIM/OEM(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/03
CHQ-DIM/DIN(SCI)	Intelligent Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN rail version)	164q/04
CHQ-DSC/OEM(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/05
CHQ-DSC/DIN(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN rail version)	164q/06
CHQ-DRC/OEM(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/07
CHQ-DRC/DIN(SCI)	Intelligent Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN rail version)	164q/08
CHQ-SZM/OEM(HFP)-SCI	Intelligent analogue addressable single zone monitor with short circuit isolator	164q/01
CHQ-DIM/OEM(HFP)-SCI	Intelligent analogue addressable dual input module with short circuit isolator	164q/03
CHQ-DSC/OEM(HFP)-SCI	Intelligent analogue addressable dual sounder controller with short circuit isolator	164q/05
CHQ-DRC/OEM(HFP)-SCI	Intelligent analogue addressable dual relay controller with short circuit isolator	164q/07
YBO-R/SCI(RED)	Short Circuit Isolating Base (RED)	164n/02
YBO-R/6R	Conventional latching relay base	164p/07
YBO-R/6R(WHT)	Conventional latching relay base - White	164p/07
YBO-R/6RS	Conventional latching relay base with integral Schottky diode	164p/08
YBO-R/6RS(WHT)	Conventional latching relay base with integral Schottky diode - White	164p/08
YBO-R/6RN	Conventional non-latching relay base	164p/09
YBO-R/6RN(WHT)	Conventional non-latching relay base - White	164p/09
CHQ-POM	Intelligent Analogue addressable powered output module	164p/10
CHQ-SIM	Intelligent Analogue addressable single input module	164p/11
CHQ-POM(HFP)	Intelligent Analogue addressable powered output module	164p/10
CHQ-SIM(HFP)	Intelligent Analogue addressable single input module	164p/11
CHQ-SZM/M(SCI)	Intelligent analogue addressable single zone monitor with short circuit isolator	164q/01
CHQ-DIM/M(SCI)	Intelligent analogue addressable dual input module with short circuit isolator	164q/03
CHQ-DSC/M(SCI)	Intelligent analogue addressable dual sounder controller with short circuit isolator	164q/05
CHQ-DRC/M(SCI)	Intelligent analogue addressable dual relay controller with short circuit isolator	164q/07
CHQ-DZM(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with short circuit Isolator	164q/09
CHQ-DZM/DIN(SCI)	Intelligent Analogue Addressable Dual Zone Monitor with short circuit Isolator (DIN rail	164q/10

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
CHQ-DZM(SCI)-IS	version) Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with short circuit Isolator	164q/11
CHQ-DZM/DIN(SCI)-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with short circuit Isolator (DIN rail version)	164q/12
CHQ-PCM/DIN(SCI)	Analogue Addressable 4 Input, 4 output Plant Control Module with short circuit isolator <i>Note: The device must be in an enclosure as defined in the manufacture installation manual.</i>	164q/14
CHQ-PCM(SCI)	Analogue Addressable 4 Input, 4 output Plant Control Module with short circuit isolator <i>Note: The device must be in an enclosure as defined in the manufacture installation manual.</i>	164q/13
CHQ-PCM(HFP)-SCI	Analogue Addressable 4 Input, 4 output Device with short circuit isolator <i>Note: The device must be in an enclosure as defined in the manufacture installation manual.</i>	164q/13
RSM-EXP	Wireless Expander module	928r/02
YBN-R/3(HFP)-SCI	Short Circuit Isolating Base	164n/05
YBN-R/3(SCI)	Short Circuit Isolating Base	164n/04
YBN-R/3(WHT)-SCI	Short Circuit Isolating Base (white)	164n/05
RSM-WTM ESP	Wire to Wireless translator module	928t/01
CHQ-SOM	Intelligent analogue addressable single output module	164p/12
CHQ-SOM(HFP)	Intelligent analogue addressable single output module	164p/12
CHQ-MRC2/DIN(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator <i>Note: The device must be in an enclosure as defined in the manufacturers installation manual.</i>	164q/15
CHQ-MRC2(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16
CHQ-MRC2(HFP)-SCI	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16
CHQ-ISM	Intrinsically Safe Sounder Interface Module <i>Note: 1. Should always be used with an I.S Barrier; further details can be found in the manufacturers installation instructions. 2. The CHQ-ISM is not itself intrinsically safe</i>	164p/13
CHQ-ISM/DIN	Intrinsically Safe Sounder Interface Module (DIN Rail Version) <i>Notes: 1. Should always be used with an I.S Barrier; further details can be found in the manufacturers installation instructions. 2. The CHQ-ISM/DIN is not itself intrinsically safe. 3. Device to be installed within a SMB-3 or SMB-2 enclosure.</i>	164p/14
CHQ-ISM(HFP)	Intrinsically Safe Sounder Interface Module <i>Note: 1. Should always be used with an I.S Barrier; further details can be found in the manufacturers installation instructions. 2. The CHQ-ISM(HFP) is not itself intrinsically safe.</i>	164p/13
RSM-CIM	Wireless Conventional System Expander Module	928r/01
RSM-POM	Wireless Battery Powered Output Module <i>Note:1. The device must be used with the following batteries only: -CR123A (3Vdc) - Main Battery -CR123A (3Vdc) - Secondary Battery</i>	928r/03
RSM-IP	Wireless Battery Powered Input Module <i>Note:1. The device must be used with the following batteries only: -CR123A (3Vdc) - Main Battery -CR2032A (3Vdc) - Secondary Battery</i>	928r/04
CHQ-DIM2(SCI)	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
CHQ-DIM2/DIN(SCI)	Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)	164q/20
CHQ-DRC2(SCI)	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
CHQ-DRC2/DIN(SCI)	Analogue Addressable Dual Relay Controller with Short Circuit Isolator (DIN Rail Version)	164q/22
CHQ-DIM2(HFP)-SCI	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
CHQ-DRC2(HFP)-SCI	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
CHQ-SZM2(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
CHQ-SZM2/DIN(SCI)	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator (DIN Rail Version)	164q/24
CHQ-SZM2(HFP)-SCI	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
CHQ-DSC2(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
CHQ-DSC2/DIN-(SCI)	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)	164q/26
CHQ-DSC2(HFP)-SCI	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
CHQ-FTM	Intelligent Analogue Addressable 4-20mA Input/Output Module <i>Note: 1. Device to be installed within an OEM enclosure.</i>	164p/15
CHQ-FTM/DIN	Intelligent Analogue Addressable 4-20mA Input/Output Module (DIN rail version) <i>Note: 1. Device to be installed within a TK-PC 1811(SMB-3) enclosure.</i>	164p/16
CHQ-FTM(HFP)	Intelligent Analogue Addressable 4-20mA Input/Output Module <i>Note:</i>	164p/15

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
CHQ-MRC2/FS(SCI)	1. Device to be installed within an OEM enclosure. Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator - Fail Safe Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/27
CHQ-MRC2/FSDIN(SCI)	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator (DIN Rail Version) - Fail Safe Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/28
CHQ-MRC2/FS(HFP)-SCI	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator - Fail Safe Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/27

Honeywell Control Systems Limited

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom

Tel: +44 (0)1344 655609 • Fax: +44 (0)1344 655474

Website: www.honeywell.com

Certificate No: 199v to EN 54-17: 2005 & EN 54-18: 2005

Certificated Products		LPCB Ref. No.
TC841E1019EIS	Conventional zone monitor module with resistive end of line	199v/08
TC809E1043	Analogue addressable single channel input module with short circuit isolator	199v/01
TC809E1050	Analogue addressable dual channel input module with short circuit isolator	199v/02
TC809E1068	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
TC810E1032	Single channel output module with short circuit isolator	199v/04
TC810E1040	Single channel 240V output module with short circuit isolator	199v/05
TC810E1057	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
TC841E1019	Conventional Zone Interface Module	199v/07
TC810E1040-KO	Single Channel 240V Output Module	199v/09

Honeywell Control Systems Ltd

Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB, United Kingdom

Tel: 01344 655609 • Fax: 01344 655474

Website: www.honeywell.com

Certificate No: 928aa-(cl-2) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Certificated Products		LPCB Ref. No.
TC84RME	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Honeywell Protocol)	928aa/02

Ancillaries:

SIGI-MP1	Mounting Plate
SIGA-MP2	Mounting Plate
SIGA-MP2L	Mounting Plate

Honeywell Products & Solutions Sàrl (Trading as System Sensor Europe)

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E-mail: sse.marketing@systemsensor.com • Website: www.systemsensoreurope.com

European Sales:

System Sensor Europe, Life Safety Distribution AG, Wilstrasse 11 (Building U31), CH-8610 Uster, Switzerland

Tel: +41 44 943 4424 • Fax: +41 44 943 4399

E-mail: sse.marketing@systemsensor.com • Website: www.systemsensor.com

Certificate No: 199r to CEA GEI 1-052 Draft 2.0 (11-06-97) and prEN 54-17 Draft (July 2002)

Certificate No: 199x to EN 54-17: 2005

Certificate No: 199v to EN 54-17: 2005 & EN 54-18: 2005

Certificate No: 166u-(cl-1) to EN 54-17:2005

Line Units

Certificated Products

		LPCB Ref. No.
M200XE	Short circuit isolator module	199r/01
B524IEFT-1	Short circuit isolator base	199x/01
ISO524-1	Short circuit isolator module	199x/02
M210E	Analogue Addressable single channel input module with short circuit isolator	199v/01
M220E	Analogue addressable dual channel input module with short circuit isolator	199v/02
M221E	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
M201E	Single channel output module with short circuit isolator	199v/04
M201E-240	Single channel 240V output module with short circuit isolator	199v/05
M201E-240-DIN	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
M210E-CZ	Conventional zone interface module	199v/07
M210E-CZR	Conventional zone monitor module with resistive end of line <i>Will be labelled as M210E-CZR-yy, where yy indicates the protocol identifier option value between 00 and 99.</i>	199v/08
M201E-240-KO	Single Channel 240V Output Module	199v/09
BST-xx-lyy	Analogue Addressable Base LED Strobes with Short Circuit Isolator (B501AP) Notes: 1. Not approved to EN 54-23:2010 2. xx indicates colour of body and lens 3. First x indicates body colour. D=Detector White, P=Pure White 4. Second x indicates lens colour. C=Clear, A=Amber, R=Red 5. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	166u/01
WST-xx-lyy	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP) Notes: 1. Not approved to EN 54-23:2010 2. xx indicates colour of body and lens 3. First x indicates body colour. D=Detector White, P=Pure White 4. Second x indicates lens colour. A=Amber, R=Red 5. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	166u/02

Bases:

B501AP Mounting base

PART 1: SECTION 6

LINE UNITS

INIM Electronics S.R.L

Via Dei Lavoratori 10, Frazione Centobuchi, Monteprandone (AP) 63076, Italy

Tel: +39 0735 705007 • Fax: +39 0735 704912

E-mail: info@inim.biz • Website: www.inim.biz

Certificate No: 991g to EN 54-17:2005, EN 54-18:2005

Certificated Products

		LPCB Ref. No.
EM312SR	Intelligent Analogue Addressable Mini Input / Output Module with Short Circuit Isolator	991g/01
EU311	Intelligent Analogue Addressable Micro Input / Output Module with Short Circuit Isolator	991g/02
EM344S	Intelligent Analogue Addressable 4 Input / 4 Supervised Output Module with Short Circuit Isolator	991g/03
EM344R	Intelligent Analogue Addressable 4 Input / 4 Relay Output Module with Short Circuit Isolator	991g/04
EM340	Intelligent Analogue Addressable 4 Input Module with Short Circuit Isolator	991g/05
EM304S	Intelligent Analogue Addressable 4 Supervised Output Module with Short Circuit Isolator	991g/06
EM304R	Intelligent Analogue Addressable 4 Relay Output Module with Short Circuit Isolator	991g/07

Kidde Products Ltd

Thame Park Road, Thame, Oxfordshire OX9 3RT, United Kingdom

Tel: +44 (0)1844 265003 • Fax: +44 (0)1844 265156

E-mail: general.enquiries@kiddeuk.co.uk • Website: www.kfp.co.uk

Certificate No: 010ah-(cl-4) to EN 54-18: 2005 and EN 54 -17: 2005

Certificated Products

		LPCB Ref. No.
23900-K135	XP95 analogue addressable switch monitor plus with isolator	010ah/03
23900-K136	XP95 analogue addressable zone monitor unit with isolator	010ah/05
23900-K132	XP95 analogue addressable input/output unit with isolator	010ah/06
23900-K137	XP95 analogue addressable sounder controller with isolator	010ah/08

KMW Systems S.R.L.

Str.Sambetei, Nr. 6 Iasi, , Romania

Tel: 0040232247288

E-mail: maris.gavriluta@kmw.ro

Certificate No: 1174g-(cl-5) to EN 54-17:2005

Certificate No: 1174h-(cl-5) to EN 54-18:2005

Line Units

Approved Products

		LPCB Ref. No.
KM-FA6420	Addressable Isolator Interface (KM-FA6401 base) Base KM-FA6401 Installation Base	1174g/01
KM-FA6400	Addressable Monitor Interface (1 Input) (KM-FA6401 Base)	1174h/01
KM-FA6410	Addressable Control Interface (1 Input & 1 Output) (KM-FA6401 Base) Base KM-FA6401 Installation Base	1174h/02

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Wiegelestrasse 36, A-1231 Vienna, Austria

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E-mail: andreas.schumacher@lst.at • Website: www.laborstrauss.com

Certificate No: 928r-(cl-9) to EN 54-18:2005 EN 54-25:2008

Certificate No: 928n-(cl-8) to EN 54-17: 2005, EN 54-18: 2005 , EN 54-25: 2008

Certificated Products

FI720/RF/WE	Wireless Expander Module
FI720/RF/CWE	Wireless Conventional System Expander Module
FI720/RF/W2W	Wire to Wireless Translator Module

LPCB Ref.

No.
928r/02
928r/01
928n/01

Mavili Elektronik Ticaret Ve Sanayi A.S.

Serifali Mah, Kutup Sok, No: 27:, 1-2-4 Ümraniye, Istanbul TR 34775, Turkey

Tel: +90 216 4664 505 • Fax: +90 216 4664 510

E-mail: mavili@mavili.com.tr • Website: www.mavili.com.tr

Certificate No: 926f to EN 54-17:2005 & EN 54-18:2005

Certificate No: 926g to EN 54-17:2005

Certificate No: 926e to EN 54-18:2005

Certificated Products

ML-1361.SCI	Maxlogic Intelligent Addressable System Relay Control Module
ML-1362.SCI	Maxlogic Intelligent Addressable System Switch Monitor Module
ML-1363.SCI	Maxlogic Intelligent Addressable System 2 Input / 1 Output Module
ML-1366.SCI	Maxlogic Intelligent Addressable System 4 Input / 2 Output Module
ML-1371.SCI	Maxlogic Intelligent Addressable Sounder Control Module
ML-1372.SCI	Maxlogic Intelligent Addressable Zone Control Module
ML-1373.SCI	Maxlogic Intelligent Addressable 2 Input / 1 Output Module
ML-1380	Maxlogic Intelligent Addressable System Short Circuit Isolator
ML-1361	Maxlogic Intelligent Addressable System Relay Control Module
ML-1362	Maxlogic Intelligent Addressable System Switch Monitor Module
ML-1363	Maxlogic Intelligent Addressable System 2 Input / 1 Output Module
ML-1366	Maxlogic Intelligent Addressable System 4 Input / 2 Output Module
ML-1371	Maxlogic Intelligent Addressable Sounder Control Module
ML-1372	Maxlogic Intelligent Addressable Zone Control Module
ML-1373	Maxlogic Intelligent Addressable 2 Input / 1 Output Module

LPCB Ref.

No.
926f/01
926f/02
926f/03
926f/04
926f/05
926f/06
926f/07
926g/01
926e/01
926e/02
926e/03
926e/04
926e/05
926e/06
926e/07

Ancillaries

ML-0320 Plastic Box

Morley IAS by Honeywell

Caburn House, 2B Brooks Road, Lewes BN7 2BY, United Kingdom

Tel: +44(0)1273 897000 • Fax: +44(0) 1273 376894

E-mail: sales@morleysias.co.uk • Website: http://www.morley-ias.co.uk

Certificate No: 928aa-(cl-3) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Certificated Products

MIW-INT	Wire to Wireless Translator Interface Module with Short Circuit Isolator (Morley Protocol)
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LPCB Ref.

No.
928aa/03

PART 1: SECTION 6

LINE UNITS

Morley-IAS by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste 34147, Italy

Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888

E-mail: sales@morleyias.co.uk • Website: www.morley-ias.co.uk

Certificate No: 199v to EN 54-17: 2005 & EN 54-18: 2005

Certificate No: 199r to CEA GEI 1-052 Draft 2.0: 11.06.97 & prEN 54-17 Draft: July 2002

Certificate No: 166u-(cl-3) to EN 54-17:2005

Certificated Products

		LPCB Ref. No.
MI-DMMI	Analogue addressable single channel input module with short circuit isolator	199v/01
MI-DMM2I	Analogue addressable dual channel input module with short circuit isolator	199v/02
MI-D2ICMO	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
MI-DCMO	Single channel output module with short circuit isolator	199v/04
MI-D240CMO	Single channel 240V output module with short circuit isolator	199v/05
MI-240CMO-DIN	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
MI-DCZM	Conventional zone interface module	199v/07
MI-DISO	Short circuit isolator module	199r/01
MI-DCZRM	Conventional zone monitor module with resistive end of line	199v/08
MI-D240CMO-KO	Single Channel 240V Output Module	199v/09
MI-WST-PR-I	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP)	166u/02

Note:
1. Not approved to EN 54-23:2010

Bases

B501AP Mounting base

Multron Systems Pte Ltd

217 Kallang Bahru, Multron Building, Singapore 339 347, Singapore

Tel: +65 6743 2555 / 6395 6868 • Fax: +65 6743 2777 / 6395 6869

E-mail: info@multron.com • Website: www.multron.com

Certificate No: 1330e-(cl-3) to EN 54-18:2005

Certificate No: 1330f-(cl-3) to EN 54-17 :2005

Certificated Products

		LPCB Ref. No.
MX210	Addressable Single Input/Output Module	1330e/01
MX230	Analogue Addressable Isolator Module	1330f/01

Notifier by Honeywell

Caburn House, 2B Brooks Road, Lewes BN7 2BY, United Kingdom

Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888

E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 928aa-(cl-1) to EN 54-17: 2005, EN 54-18: 2005, EN 54-25: 2008

Notifier by Honeywell, Pittway Tecnologica Srl

Via Caboto 19/3, Trieste, Italy 34147, United Kingdom

Tel: +44 (0)1444 230300 • Fax: +44 (0)1444 230888

E-mail: sales@notifiersystems.co.uk • Website: www.notifierfiresystems.co.uk

Certificate No: 199r to CEA GEI 1-052 Draft 2.0: 11.06.97 & prEN 54-17 Draft: July 2002

Certificate No: 199v to EN 54-17: 2005 & EN 54-18: 2005

Certificate No: 166u-(cl-2) to EN 54-17:2005

Line Units**Certificated Products**

		LPCB Ref. No.
M700X	Short circuit isolator module	199r/01
M710	Analogue addressable single channel input module with short circuit isolator	199v/01
M720	Analogue addressable dual channel input module with short circuit isolator	199v/02
M721	Analogue addressable dual channel input and single channel output module with short circuit isolator	199v/03
M701	Single channel output module with short circuit isolator	199v/04
M701-240	Single channel 240V output module with short circuit isolator	199v/05
M701-240-DIN	Single channel 240V output module, DIN rail mount with short circuit isolator	199v/06
M710-CZR	Conventional zone monitor module with resistive end of line	199v/08
M701-240-KO	Single Channel 240V Output Module	199v/09
NFXI-BF-WC	Analogue Addressable Base LED Strobes with Short Circuit Isolator (B501AP)	166u/01
	Note:	
	1. Not approved to EN 54-23:2010	
NFXI-WF-AA	Analogue Addressable Wall Mounted LED Strobes with Short Circuit Isolator (B501AP)	166u/02
	Note:	
	1. Not approved to EN 54-23:2010	

Bases

B501AP Mounting base

NSC Sicherheitstechnik GmbH

Lange Wand 3, Bielefeld D33719, Germany

Tel: +4952237924216

E-mail: a.bartling@nsc-sicherheit.de • Website: www.nsc-sicherheit.de

Certificate No: 010ah-(cl-9) to EN 54-17:2005 & EN 54-18:2005

Line Units**Certificated Products**

		LPCB Ref. No.
B02947-64	Intelligent Switch Monitor (45681-400 Backbox)	010ah/11
B02940-64	Intelligent Input/Output Unit (45681-400 Backbox)	010ah/13
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
B02944-64	Intelligent Mains Switching Input/Output Unit (45681-400 Backbox)	010ah/19
B02942-64	Intelligent Twin Input/Output Unit (45681-400 Backbox)	010ah/21
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
B02949-64	Intelligent Twin Switch Monitor (45681-400 Backbox)	010ah/22

Ancillaries

45681-400 Intelligent Interface Backbox

PART 1: SECTION 6

LINE UNITS

nuhas oman

Sector 36, Pace City - II, Gurgaon, Haryana 122004, India

Tel: +91 124 4752700 • Fax: +91 124 4752750

E-mail: amit.puri@honeywell.com • Website: www.honeywell.com

Certificate No: 550j-(cl-1) to EN 54-17:2005

Certificate No: 550k-(cl-1) to EN 54-17:2005 & EN 54-18:2005

Line Units

Certificated Products

		LPCB Ref. No.
MI-DISO	Analogue Addressable Short Circuit Isolator Module	550j/01
MI-DMMI	Analogue Addressable Single Channel Input Module with Short Circuit Isolator	550k/01
MI-DMM2I	Analogue Addressable Dual Channel Input Module with Short Circuit Isolator	550k/02
MI-D2ICMO	Analogue Addressable Dual Channel Input and Single Channel Output Module with Short Circuit Isolator	550k/03
MI-DCMO	Single Channel Output Module with Short Circuit Isolator	550k/04
MI-D240CMO	Single Channel 240V Output Module with Short Circuit Isolator	550k/05
MI-D240CMO-DIN	Single Channel 240V Output Module, DIN Rail Mount with Short Circuit Isolator	550k/06
MI-DCZRM	Conventional Zone Monitor Module with Resistive End of Line	550k/07

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia

Tel: +62216330330

E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426e-(cl-4) to EN 54-18: 2005

Certificate No: 1426f-(cl-4) to EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
SDM 767	Addressable I/O Module (DZ-9056 Base)	1426e/01
SIM 718	Loop Isolator (DZ-9057 Base)	1426f/01
Base		
DZ-9056		
DZ-9057		

Realty Automation & Security Systems Pvt Ltd.

Survey No. 11/11, Karanjakar Estate, Nanded Gaon, Pune MH- 411041, India

Tel: +91-9011033259

E-mail: sales@vighnaharta.in • Website: www.vighnaharta.in

Certificate No: 010aa-(cl-6) to EN 54-17:2005

Line Units

Certificated Products

		LPCB Ref. No.
BASE-284TSF	TrueSafe Isolating Base	010aa/01

Schneider Electric Fire & Security Oy

Sokerilinnantie 11C, 02600, Espoo, Finland

Tel: +358 10 446 511 • Fax: +358 10 446 5103

E-mail: FI-FireSecurity-Info@schneider-electric.com • Website: www.schneider-electric.com

Certificate No: 199x to EN 54-17: 2005

Certificate No: 199v to EN 54-17: 2005 and EN 54-18: 2005

Certificate No: 010ag-(cl-1) to EN 54-18: 2005

Certificate No: 010aa-(cl-2) to EN 54-17: 2005

Certificate No: 010ah-(cl-1) to EN 54-18: 2005 and EN 54-17: 2005

Certificated Products**LPCB Ref. No.**

EMISO524	Short circuit isolator	199x/02
EM210ECZ	Conventional zone interface module	199v/07
EM210E-CZR	Conventional zone monitor module with resistive end of line	199v/08
EMI-401/S	Intellia DIN-rail sounder control module	010ag/08
EBI-11	Intellia isolating base	010aa/01
EMI-400	Intellia DIN-rail dual isolator	010aa/06
EMI-410/CZ	Intellia DIN-rail conventional zone module with isolator	010ah/02
EMI-310/CZ	Intellia conventional zone monitor module with isolator	010ah/05
EMI-301/S	Intellia sounder control module with isolator	010ah/08
EBI-20	ESMI Intellia Relay Base	010ag/01
EME210-I	ESMI Essentia Switch Monitor EME210-I (FFS06720330 Backbox)	010ah/11
EME214-I	ESMI Essentia DIN-Rail Switch Monitor EME214-I (FFS06720331 DIN Tub)	010ah/12
EME212-I	ESMI Essentia Input/Output Unit EME212-I (FFS06720330 Backbox)	010ah/13
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
EME213-I	ESMI Essentia DIN-Rail Input/Output Unit EME213-I (FFS06720331 DIN Tub)	010ah/14
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
EME215-I	ESMI Essentia Mains Switching Input/Output Unit EME215-I (FFS06720330 Backbox)	010ah/19
EME216-I	ESMI Essentia Twin Input/Output Unit EME216-I (FFS06720330 Backbox)	010ah/21
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
EME211-I	ESMI Essentia Twin Switch Monitor EME211-I (FFS06720330 Backbox)	010ah/22
FFS06720330	Backbox	
FFS06720331	DIN Tub	

Shenzhen Fanhai Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 518054, China

Tel: +86 755 26521071

E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426e-(cl-2) to EN 54-18:2005

Certificate No: 1426f-(cl-2) to EN 54-17: 2005

Certificated Products**LPCB Ref. No.**

A9056T	Addressable I/O Module (DZ-9056 Base)	1426e/01
A9057T	Loop Isolator	1426f/01
A9058T	Addressable I/O Module (DZ-9058 Base)	1426e/02
Base		
DZ-9057		
DZ-9058		

PART 1: SECTION 6

LINE UNITS

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

Tel: +44 1708 377731 • Fax: +44 1708 347637

E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 548n-(cl-4) to EN 54-17: 2005

Certificate No: 010aa-(cl-4) to EN 54-17: 2005

Certificate No: 010ah-(cl-7) to EN 54-18: 2005 & EN 54-17: 2005

Certificate No: 928n-(cl-10) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificate No: 928r-(cl-11) to EN 54-18: 2005 and EN 54-25: 2008

Line Units

Certificated Products

		LPCB Ref. No.
AI-520E	Loop Isolator (B-9310 Back Box)	548n/04
SEN-A4002	Short Circuit Isolating Base	010aa/01
SEN-A4003	Negative Short Circuit Isolator (SEN-A4004 Base)	010aa/05
SEN-A4025	Enhanced Deep Isolating Base (Red)	010aa/08
SEN-A4044	Analogue Addressable Zone Monitor Unit with Isolator	010ah/05
SEN-A4045	Analogue Addressable Input/Output Unit with Isolator	010ah/06
SEN-A4047	Analogue Addressable Sounder Controller with Isolator	010ah/08
SEN-A4042	Analogue Addressable Mini Switch Monitor with Isolator	010ah/09
SEN-A4048	Analogue Addressable Locally Powered Zone Monitor Unit with Isolator	010ah/10
TEN-A6061	Intelligent Switch Monitor (TEN-A9099 Backbox)	010ah/11
TEN-A6065	Intelligent DIN-Rail Switch Monitor (TEN-A9098 DIN Tub)	010ah/12
TEN-A6062	Intelligent Input / Output Unit (TEN-A9099 Backbox)	010ah/13
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
TEN-A6066	Intelligent DIN-Rail Input / Output Unit (TEN-A9098 DIN Tub)	010ah/14
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
TEN-A6063	Intelligent Mains Switching Input / Output Unit (TEN-A9099 Backbox)	010ah/19
TEN-A6064	Intelligent Twin Input / Output Unit (TEN-A9099 Backbox)	010ah/21
	Note:	
	1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	
TEN-A6067	Intelligent Twin Switch Monitor (TEN-A9099 Backbox)	010ah/22
SIL-A6061	SIL Input/Output Unit with Isolator	010ah/06
SW-2210	Wire to Wireless Translator Module	928n/01
SW-2230	Wireless Conventional System Expander Module	928r/01
SW-2220	Wireless Expander Module	928r/02
SW-6310	Wireless Battery Powered Output Module	928r/03
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) - Main Battery	
	- CR123A (3Vdc) - Secondary Battery	
SW-6210	Wireless Battery Powered Input Module	928r/04
	1. The device must be used with the following batteries only:	
	- CR123A (3Vdc) - Main Battery	
	- CR2032A (3Vdc) - Secondary Battery	

Accessories:

B-9310 Back Box

TEN-A9099 Backbox

TEN-A9098 DIN Tub

Base:

SEN-A4004 Addressable base

SHIELD FIRE, SAFETY AND SECURITY LTD

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

Tel: +44 207 712 1610 • Fax: +44 207 712 1578

E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 548m-(cl-4) to EN54-18: 2005

Certificate No: 548n-(cl-4) to EN54-17: 2005

Certificate No: 010ag-(cl-4) to EN 54-18: 2005

Line Units**Certificated Products**

		LPCB Ref. No.
AI-500	Analogue Addressable Input Module	548m/01
AI-510	Analogue Addressable Single Output Module	548m/02
	Notes:	
	1. 4 Wire Mode, 24v active output (Default).	
	2. 2 Wire Mode, volt free changeover contact output.	
AI-515	Addressable Zone Monitor Unit	548m/03
SIL-A9099	SIL I.S. Protocol Translator (Single)	010ag/14
	Note:	
	1. To ensure compliance is maintained, all connecting cables to the protocol translator shall be less than 3m.	

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland

Website: www.siemens.com

Certificate No: 126bm to EN 54-17:2005, EN 54-18:2005
EN 54-18:2005

Certificate No: 126bp to EN 54-17:2005, EN 54-18:2005

Certificate No: 531h-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificate No: 531m-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificate No: 531n-(cl-1) to EN 54-17:2005

Certificate No: 531r-(cl-1) to EN 54-18:2005

Certificated Products

		LPCB Ref. No.
DC1192	Input/Output Module with Short Circuit Isolator	126bm/02
FT2001-A1	Digital Addressable Mimic Display Driver(F50F410, 520379)Note:	126bp/01
	1. Approved when used with a metal enclosure at least complying with protection class IP30 and weighing at least 4.5kg.	
FT2010-A1	Floor Repeater Terminal	126bp/02
FT2011-A1	Floor Repeater Display	126bp/03
FDCI221	Analogue Addressable Input Module with Short Circuit Isolator	531h/01
	Note:	
	1. Approved when used with the FDCH221	
FDCIO221	Analogue Addressable Input/Output Module with Short Circuit Isolator	531h/02
	Note:	
	1. Approved when used with the FDCH221	
FDCI222	Analogue Addressable Input Module with Short Circuit Isolator	531m/01
	Notes:	
	1. Approved when used with FDCH221 housing	
	2. Approved with FDCM291 mounting foot and TS35 standard top hat rail	
FDCIO222	Analogue Addressable Input/Output Module with Short Circuit Isolator	531m/02
	Notes:	
	1. Approved when used with FDCH221 housing	
	2. Approved with FDCM291 mounting foot and TS35 standard top hat rail	
FDCIO223	Addressable Input/Output Module (Transponder) with Short Circuit Isolator	531m/03
	Notes:	
	1. Approved when used in conjunction with housing FDCH221	
	2. Approved with FDCM291 mounting foot and TS35 standard top hat rail	
FDCL221	Analogue Addressable Line Separator	531n/01
	Note:	

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
FDCL221-M	1. Approved with TS35 standard top hat rail Multi Line Separator Module Notes: 1. Approved when used with FDCH221 housing 2. Approved with FDCM291 mounting foot and TS35 standard top hat rail	531n/02
FCA1209-Z1 FDCI361	Output Module Analogue Addressable Input Module with Short Circuit Isolator Note: 1) Approved when used with FDCH221	531r/01 531h/03
FDClO361	Analogue Addressable Input / Output Module with Short Circuit Isolator Note: 1) Approved when used with the FDCH221	531h/04

Accessories:
F50F410 LED flat cable
520379 AC/AC Transformer
FDCH221 Enclosure
FDCM291 Mounting foot
TS35 Standard top hat rail
FDCH221 Housing

Silver-Tec Limited

Unit 1-2, Building 53B, Pensnett Trading Estate, Kingswinford, West Midlands DY6 7XQ, United Kingdom

Tel: +44 (0)1384 671611

E-mail: info@silver-tec.co.uk • Website: www.silver-tec.co.uk

Certificate No: 164n-(cl-1) to EN 54-17:2005

Certificate No: 164q-(cl-1) to EN 54-17:2005, EN 54-18:2005

Certificate No: 164p-(cl-1) to EN 54-18:2005

Certificated Products		LPCB Ref. No.
ST-ABI-SCR	Short Circuit Isolating Base (RED)	164n/02
ST-ABI-SCW	Short Circuit Isolating Base (WHITE)	164n/05
ST-ZM2B-SC	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator	164q/09
ST-ZM2D-SC	Intelligent Analogue Addressable Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)	164q/10
ST-ZM2B-IS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator	164q/11
ST-ZM2D-SCIS	Intelligent Analogue Addressable Intrinsically Safe Dual Zone Monitor with Short Circuit Isolator (DIN Rail Version)	164q/12
ST-PC4B-SC	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/13
ST-PC4D-SC	Analogue Addressable 4 Input, 4 Output Plant Control Module with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/14
ST-RC1D-SC	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator Note: The device must be in an enclosure as defined in the manufacturers installation manual.	164q/15
ST-RC1B-SC	Intelligent Analogue Addressable Mains Relay Controller with Short Circuit Isolator	164q/16
ST-I2B-SC	Analogue Addressable Dual Input Module with Short Circuit Isolator	164q/19
ST-I2D-SC	Analogue Addressable Dual Input Module with Short Circuit Isolator (DIN Rail Version)	164q/20
ST-RC2B-SC	Analogue Addressable Dual Relay Controller with Short Circuit Isolator	164q/21
ST-ZM1B-SC	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator	164q/23
ST-ZM1D-SC	Intelligent Analogue Addressable Single Zone Monitor with Short Circuit Isolator (DIN Rail Version)	164q/24
ST-SC2B-SC	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator	164q/25
ST-SC2D-SC	Intelligent Analogue Addressable Dual Sounder Controller with Short Circuit Isolator (DIN Rail Version)	164q/26
ST-POC	Intelligent Analogue Addressable Powered Output Module	164p/10
ST-I1B	Intelligent Analogue Addressable Single Input Module	164p/11
ST-O1B	Intelligent Analogue Addressable Single Output Module	164p/12
ST-I1D	Intrinsically Safe Sounder Interface Module (DIN Rail Version) Note: 1. Should always be used with as I.S Barrier; further details can be found in the manufacturers installation instructions.	164p/14

Certificated Products

2. The CHQ-ISM/DIN is not itself intrinsically safe.
3. Device to be installed within a SMB-3 or SMB-2 enclosure.

LPCB Ref.
No.**SMS (Novar Systems Ltd)**

Hamilton Industrial Park, 140 Waterside Road, Leicester LE5 1TN, United Kingdom

Tel: +44 (0)116 246 2100 • Fax: +44 (0)116 246 2016

Website: www.smsfire.co.uk

Certificate No: 042ba to EN54-18: 2005, EN54-17: 2005

Certificated Products

		LPCB Ref. No.
SEN-INT-INPUT	Analogue addressable 1 input interface module with short circuit isolator low voltage (SEN-490 and SEN-492 boxes).	042ba/01
SEN-INT-ACDIN	Analogue addressable 1 output DIN rail mounting interface module with short circuit isolator, medium voltage.	042ba/02
SEN-INT-AC	Analogue addressable 1 output surface mounting interface module with short circuit isolator, medium voltage.	042ba/03
SEN-INT-OUTPUT	Analogue addressable 1 input and 1 output interface module with short circuit isolator, low voltage (SEN-490 and SEN-492 boxes)	042ba/04
SEN-INT-4I0	Analogue addressable 4 input / output interface module with short circuit isolator, low voltage (SEN-490 and SEN-492 boxes)	042ba/05

Accessories:

SEN-490 Plastic Box

SEN-492 Metal Box

Certificate No: 042bp to EN54-18:2005, EN-17:2005 & EN54-4:1997+A1:2002+A2:2006

Approved Products

		LPCB Ref. No.
78302-02NM	S4 ASD Mains Powered Interface Unit with Short Circuit Isolator	042bp/01

SS Fire & Security Sdn Bhd

80A, Jalan Megat, Batu Pahat, Johor 83000, Malaysia

Tel: +60167788888

E-mail: ss@ssfiresecurity.com

Certificate No: 548m-(cl-6) to EN 54-18: 2005

Certificate No: 548n-(cl-6) to EN 54-17: 2005

Line Units**Certificated Products**

		LPCB Ref. No.
SEA-9300	Analogue Addressable Input Module	548m/01
SEA-9301	Analogue Addressable Single Output Module	548m/02
	<i>Notes:</i>	
	1. 4 Wire Mode, 24v active output (Default)	
	2. 2 Wire Mode, volt free changeover contact output	
SEA-9319	Addressable Zone Monitor Unit	548m/03
SEC-9504E	Base Mount Isolator	548n/03
SEC-9503E	Loop Isolator (B-9310 Back Box)	548n/04

Accessories

B-9310 Back Box

PART 1: SECTION 6

LINE UNITS

Sterling Safety Systems

Unit B12a, Holly Farm Business Park, Honiley, Warwickshire CV8 1NP, United Kingdom

Tel: +44(0)1926485282 • Fax: +44(0)1926485090

E-mail: info@sterlingsafety.co.uk • Website: www.sterlingsafety.co.uk

Certificate No: 928n-(cl-6) to EN 54-18: 2005, EN 54-17: 2005 and EN 54-25: 2008

Certificate No: 928r-(cl-5) to EN 54-18: 2005 and EN 54-25: 2008

Certificated Products		LPCB Ref. No.
HFW-W2W-01	Wire to wireless translator module	928n/01
HFW-CEM-02	Wireless conventional system Expander module	928r/01
HFW-EM-01	Wireless Expander module	928r/02
HFW-BOM-03	Wireless Battery Powered Output Module Note:1. The device must be used with the following batteries only: -CR123A (3Vdc) - Main Battery	928r/03
HFW-IM-03	-CR123A (3Vdc) Secondary Battery Wireless Battery Powered Input Module Note:1. The device must be used with the following batteries only: -CR123A (3Vdc) - Main Battery -CR2032A (3Vdc) Secondary Battery	928r/04
HFW-W2W-E-01	Wire to Wireless Dynamic Translator Module	928r/05

Syncoln Ltd

3rd Floor, 14 Hanover Street, Mayfair, London W1S 1YH, United Kingdom

Tel: +44 (0)207 514 5813

E-mail: sales@syncoln.com • Website: www.syncoln.com

Certificate No: 010aa-(cl-5) to EN 54-17:2005

Certificate No: 010ah-(cl-8) to EN 54-17:2005 & EN 54-18:2005

Line Units

Certificated Products		LPCB Ref. No.
5000-500	Syncoln Isolating Base	010aa/01
5000-600	Syncoln Addressable Isolator (5000-601 Base)	010aa/05
45681-518SHA	Deep Isolating Base	010aa/08
5000-802	Syncoln Addressable Zone Monitor with Isolator	010ah/05
5000-803	Syncoln Addressable Input/Output Unit with Isolator	010ah/06
5000-806	Syncoln Addressable Sounder Control Unit with Isolator	010ah/08
SH1200-110SYN	Intelligent Switch Monitor Unit (45681-400 Backbox)	010ah/11
SH1200-112SYN	Intelligent DIN-Rail Switch Monitor Unit (38532-092 DIN Tub)	010ah/12
SH1200-107SYN	Intelligent Input / Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/13
SH1200-113SYN	Intelligent DIN-Rail Input / Output Unit (38532-092 DIN Tub) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/14
SH1200-109SYN	Intelligent Mains Switching Input / Output Unit (45681-400 Backbox)	010ah/19
SH1200-108SYN	Intelligent Twin Input / Output Unit (45681-400 Backbox) Note: 1. Approved for use with Omron relay part number: G6KU2FYTR12DC and Fujitsu part number: FTR-B3GB012Z	010ah/21
SH1200-111SYN	Intelligent Twin Switch Monitor Unit (45681-400 Backbox)	010ah/22
5000-601	Syncoln Isolator Base	
45681-400	Backbox	
38532-092	DIN Tub	

Tanda (UK) Limited

Fourth Floor, 30-31 Furnival Street, London EC4A 1JQ, United Kingdom

Tel: +44 8451162945

E-mail: info@tanda.com • Website: www.tanda.com

Certificate No: 1330e-(cl-1) to EN 54-18:2005

Certificate No: 1330f-(cl-1) to EN 54-17:2005

Certificated Products

		LPCB Ref. No.
TX7210	Addressable Single Input/Output Module	1330e/01
TX7230	Analogue Addressable Isolator Module	1330f/01
TX7232	Base Mount Short Circuit Isolator	1330f/02

Tanda Development Pte Ltd

21 Bukit Batok Crescent, #15-75 Wcega Tower, Singapore 658065, Singapore

Tel: +86013223307015

E-mail: Wanyuemin@tandatech.com • Website: www.tnafirealarm.com

Certificate No: 1330e-(cl-4) to EN 54-18:2005

Certificate No: 1330f-(cl-4) to EN 54-17:2005

Certificated Products

		LPCB Ref. No.
TX7210	Addressable Single Input/Output Module	1330e/01
TX7230	Analogue Addressable Isolator Module	1330f/01

Teletek Electronics JSC

14A Srebarina Street, Sofia 1407, Bulgaria

Tel: +359 2 9694 700 • Fax: +359 2 9625 213

E-mail: info@teletek-electronics.bg • Website: www.teletek-electronics.com

Certificate No: 1139g to EN 54-18: 2005 & EN 54-17: 2005

Line Units**Certificated Products**

		LPCB Ref. No.
SensoIRIS MIO22	Intelligent Analogue Addressable Fire Alarm Module with 2 Inputs and 2 Outputs with built-in Short Circuit Isolator Module	1139g/01
	<i>Note:</i>	
	1. <i>Meets the requirements of BS EN 60529:1992 +A2:2013 at the following IP ratings:</i>	
	a. <i>IP21C when used with IP21C small box TTE.133.01.00</i>	
	b. <i>IP55 when used with IP55 big box Z74JH PS</i>	

Ancillaries

TTE.133.01.00	IP21C Small Box
Z74JH PS	IP55 Big Box

PART 1: SECTION 6

LINE UNITS

Thorn Security Limited, trading as Tyco Safety Products

Dunhams Lane, Letchworth SG6 1BD, United Kingdom

Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777

E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681t-(cl-1) to EN 54-18: 2005

Certificated Products

LAV800 Extinguishing input module

LPCB Ref.
No.
681t/07

Accessories

M520 Standard indoor enclosure

D800 Outdoor weatherproof enclosure

Tyco Fire & Security GmbH

Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, Schaffhausen 8212, Switzerland

Tel: +44 (0)1462 667700 • Fax: +44 (0)1462 667777

E-mail: mashbury@tycoint.com • Website: www.tycosafetyproducts-europe.com

Certificate No: 681t-(cl-1) to EN 54-18: 2005

Certificate No: 681u-(cl-1) to EN 54-18: 2005

Certificate No: 681v-(cl-1) to EN 54-18: 2005 & EN54-17: 2005

Certificate No: 681aa-(cl-1) to EN 54-17:2005

Certificated Products

		LPCB Ref. No.
FC410CIM	Contact Input Module (FireClass)	681t/02
FC410DIM	Detector Input Module (FireClass)	681t/03
FC410RIM	Relay Interface Module (FireClass)	681t/04
FC410MIM	Mini Input Module (FireClass)	681t/05
FC410SNM	Sounder Notification Module (FireClass)	681t/06
FC410MIO	Small Addressable Multi Input/Output Module (FireClass)	681t/08
FC410BDM	Loop Powered Beam Detector Interface Module (FireClass)	681u/01
	<i>Note:</i>	
	1. Approved when used in conjunction with the FIRERAY 2000/50R/100R beam detector and BTM800 terminal module	
FC410DDM	Detector Driver Module with Short Circuit Isolator (FireClass)	681v/01
	<i>Notes:</i>	
	1. Approved for use with enclosure models M520 and D800	
	2. The unit is approved when powered from an EN 54-4 approved power source	
DDM800	Detector Driver Module with Short Circuit Isolator	681v/01
	<i>Notes:</i>	
	1. Approved for use with enclosure models M520 and D800	
	2. The unit is approved when powered from an EN 54-4 approved power source	
QMO850	Quad Monitored Output Module with Short Circuit Isolator	681v/02
FC410QMO	Quad Monitored Output Module with Short Circuit Isolator (FireClass)	681v/02
QIO850	Quad Input/Output Module with Short Circuit Isolator	681v/03
FC410QIO	Quad Input/Output Module with Short Circuit Isolator (FireClass)	681v/03
QRM850	Quad Relay Module with Short Circuit Isolator	681v/04
FC410QRM	Quad Relay Module with Short Circuit Isolator (FireClass)	681v/04
HVR800	High Voltage Relay Module	681t/01
	<i>Note:</i>	
	1. For use only with RIM800 relay interface module	
CIM800	Contact Input Module	681t/02
DIM800	Detector Input Module	681t/03
RIM800	Relay Interface Module	681t/04
MIM800	Mini Input Module	681t/05
SNM800	Sounder Notification Module	681t/06
MIO800	Small Addressable Multi Input/Output Module	681t/08
BDM800	Loop Powered Beam Detector Interface Module	681u/01
	<i>Note:</i>	
	1. Approved when used in conjunction with the FIRERAY 2000/50R/100R beam detector and BTM800 terminal module	

Certificated Products

4B-I	Short Circuit Isolator Base
FC410LI	Line Isolator Module
4090-5210	Contact Input Module (Simplex)
4090-5211	Relay Interface Module (Simplex)

LPCB Ref. No.

681aa/01
681aa/02
681t/02
681t/04

Ancillaries

M520	Standard indoor enclosure
D800	Outdoor weatherproof enclosure

UTC Fire & Security Inc. Trading as Edwards Systems Technology

8985 Town Center Parkway, Bradenton, Florida 34202, USA

Tel: 941-739-4214 • Fax:

E-mail: sean.hawes@carrier.com • Website: www.ccs.utc.com

Joseph Vidulich

Tel: 941-309-8616

E-mail: joseph.vidulich@fs.utc.com • Website: www.ccs.utc.com

Certificate No: 904g-(cl-1) to EN 54-17:2005

Certificate No: 902b-(cl-1) to EN 54-17: 2005

Certificate No: 1255a-(cl-1) to EN 54-18: 2005

Certificate No: 1255b-(cl-1) to EN 54-17: 2005

Certificated Products

		LPCB Ref. No.
SIGA-IB	Analogue addressable short circuit isolator base <i>Note:</i> 1. Certified for used with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-ISI and SIGA-HRSI.	902b/01
SIGA-IB4	Analogue addressable short circuit isolator base (with 4 inch mounting adaptors) <i>Note:</i> 1. Certified for used with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-ISI and SIGA-HRSI.	902b/02
SIGA-CC11	Single Input Signal Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L.2.Approved with personality code 5	1255a/01
SIGA-CC1SI	Auto-Sync Output Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 5	1255a/02
SIGA-CC2I	Dual Input Signal Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 7	1255a/03
SIGA-CRI	Control Relay Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 8	1255a/04
SIGA-CT1I	Single Input Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality codes 3, 4 and 18	1255a/05
SIGA-CT2I	Dual Input Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality codes 3, 4 and 18	1255a/06
SIGA-MM1I	Monitor Module <i>Notes:</i> 1.Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2.Approved with personality code 3	1255a/07

PART 1: SECTION 6

LINE UNITS

Certificated Products		LPCB Ref. No.
SIGA-UMI	Universal Class A/B Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L 2. Approved with personality codes 3, 4, 8, 11, 12, 15, 16 and 18	1255a/08
SIGA-IMI	Isolator Module Note: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-MP2L	1255b/01
SIGA-IB	Analogue Addressable Short Circuit Isolator Base Note: 1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-ISI and SIGA-HRSI	904g/01
SIGA-IB4	Analogue Addressable Short Circuit Isolator Base with trim Note: 1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-ISI and SIGA-HRSI	904g/02
SIGA-IOI	Input Output Control Module Notes: 1. Approved with the following ancillaries - SIGA-MP1, SIGA-MP2 and SIGA-M2PL 2. Approved with personality codes 31, 32, 33, 34, 35, 36, 37, 38, 39 and 40	1255a/09

Ancillaries

SIGA-MP1 Mounting Plate
SIGA-MP2 Mounting Plate
SIGA-MP2L Mounting Plate

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles
Tel: 008613581542023
E-mail: vgreatech@hotmail.com

Certificate No: 1174h-(cl-2) to EN 54-18: 2005

Certificate No: 1174g-(cl-2) to EN 54-17: 2005

Line Units

Certificated Products		LPCB Ref. No.
VG-6717	Addressable Monitor Interface (1 Input) (VG-6618 Base)	1174h/01
VG-6727	Addressable Control Interface (1 Input & 1 Output) (VG-6618 Base)	1174h/02
VG-6777	Addressable Isolator Interface (VG-6618 base)	1174g/01

Bases

VG-6618 Installation base

Vimpex Limited

Star Lane, Great Wakering, Essex SS3 0PJ, United Kingdom
Tel: +44 (0) 1702 216999 • Fax: +44 (0) 1702 216699
E-mail: sales@vimpex.co.uk • Website: www.vimpex.co.uk

Certificate No: 456b to EN 54-17: 2005

Certificate No: 456c to EN 54-17: 2005 and EN 54-18: 2005

Certificated Products		LPCB Ref. No.
BA873x0/MT/SCI	Isolating sounder base (shallow) Notes: 1 Key for certification; x indicates body colour: 3 = White, 4 = Red. 2 The device is approved when used with the DINT1 Interface (refer to LPCB Cert. Ref. 456c). 3 The device is approved when used with the Hosiden Besson Sounder Banshee MT and Sounder/Strobe LED Flashtone Banshee MT. (refer to LPCB Cert. Ref. 715a).	456b/01

Certificated Products

		LPCB Ref. No.
BA873x1/MT/SCI	Isolating sounder base (deep) Notes: 1 Key for certification; x indicates body colour: 3 = White, 4 = Red. 2 The device is approved when used with the DINT1 Interface (refer to LPCB Cert. Ref. 456c). 3 The device is approved when used with the Hosiden Besson Sounder Banshee MT and Sounder/Strobe LED Flashtone Banshee MT. (refer to LPCB Cert. Ref. 715a).	456b/02
DINT1	Isolating Sounder Interface Card Notes: 1. The device is approved for use with the BA873xx/MT/SCI series Isolating Sounder Bases (refer to LPCB Cert. Ref. 456b)	456c/01

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey

Tel: 0090 549 797 70 80

E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426f-(cl-1) to EN 54-17:2005**Certificated Products**

		LPCB Ref. No.
VI 200-LI	Loop Isolator Module (DZ-9057 Base)	1426f/01

Base

DZ-9057

Certificate No: 1426e(cl-1) to EN 54-18: 2005**Certificated Products**

		LPCB Ref. No.
VI 200-MIC	Intelligent Addressable Input/Output Module (DZ-9056 Base)	1426e/01

Base

DZ-9056

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili., Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China

Tel: 0417-2607119 • Fax: 0417-2867119

E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450b to EN 54-18: 2005**Certificated Products**

		LPCB Ref. No.
TCMK5263	Addressable Single Input/Output Module	1450b/01

Certificate No: 1450f to EN 54-17: 2005**Certificated Products**

		LPCB Ref. No.
TCMK5260	Loop isolator	1450f/01

PART 1: SECTION 6

LINE UNITS

The purpose of a fire alarm warning device is to warn person(s) within, or in the vicinity of, a building of the occurrence of a fire emergency situation in order to enable such person(s) to take appropriate measures. Fire alarm warning devices could be sounders, visual alarm e.g. beacons, or even loudspeakers. These devices can be of different construction and may have different parameters for example sounders are defined in terms of frequency ranges, temporal patterns and output levels, beacons are defined in terms of light temporal pattern and frequency of flashing.

Guidance on the type, frequency, temporal pattern, and output levels should be sought from the applicable installation rule or code of practice - for example BS 5839-1 recommends sounders with continuous output and frequency range between 500 Hz to 1000 Hz.

Fire alarm devices may be used for other type of risk or non-fire emergency alarm. In this case it is always recommended that a different message, colour, temporal pattern, or frequency signal from the fire signal is selected to avoid confusion.

This section lists alarm device approved for use indoors and outdoors in fire detection and fire alarm systems.

Products listed in this section have been approved to:

- EN 54-3: 2001 *Sounders*
- EN 54-3: 2001 + A1: 2002 + A2: 2006 *Sounders*
- EN 54-23: 2010 *Visual alarms*
- EN 54-24: 2008 *Loudspeakers*
- EN 54-25: 2008 *Components using radio links*

The initial approval and continued approval processes for audible, visual and loudspeaker warning devices are outlined in scheme documents SD115, SD113, and SD039.

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. EN 54-3: 2001 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 30 June 2005. It is therefore recommended that sounders are certificated to EN 54-3: 2001.
2. EN 54-23: 2010 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 30 March 2013. It is therefore recommended that sounders are certificated to EN 54-23: 2010.
3. EN 54-24: 2008 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 30 April 2011. It is therefore recommended that sounders are certificated to EN 54-24: 2008.
4. EN 54-25: 2008 is now a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market since 1 March 2011. It is therefore recommended that radio link components are certificated to EN 54- 25: 2008
5. Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

PART 1: SECTION 7

ALARM WARNING DEVICES

Advanced Electronics Limited

The Bridges, Balliol Business Park, Longbenton, Newcastle-Upon-Tyne NE12 8EW, United Kingdom

Tel: +44 (0)345 894 7000 • Fax: +44 (0)1670 707 222

E-mail: pbrown@advancedco.com • Website: www.advancedco.com

Certificate No: 928w-(cl-1) to EN54-3:2001 + A1:2002 + A2:2006

Certificate No: 928ah-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
20-VBLS100/32-ADV	Vega Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)	928w/03
20-VBLS100-AV/32-ADV	Vega Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval	928w/04
AXIS-SMB	Axis Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	928w/05
AXIS-SVMB	Axis Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	928w/06
Axis-CWS	Conventional Type A/B (indoor/outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
Axis-CWS/WH	Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
Axis-CWS + Axis-WSM	Altair Addressable Type A/B (indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928ah/01
Axis-CWS/WH + Axis-WSM	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 2. Device is only addressable when used in conjunction with Axis-WSM	928ah/01

Certificated Products

LPCB Ref.
No.

1. Meets the requirements of EN 54-3 at the following tone settings:
 Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
 Tone 2 - Continuous Tone, 970Hz
 Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
 Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
 2. Device is only addressable when used in conjunction with Axis-WSM

Detectors:

- 20-SG100-ADV Wireless optical smoke detector
 20-SG200-ADV Wireless multi-criteria detector
 20-SG350-ADV Wireless heat detector
 Ancillaries
 Axis-WSM Addressable module with short circuit isolator

Certificate No: 928y-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006; EN 54-23:2010
 Certificate No: 928z-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005 & EN 54-23: 2010

Visual & Audible Warning Devices

Certificated Products

LPCB Ref.
No.

- | | | |
|-------------------------|---|---------|
| Axis-CWSV | Conventional Type A /B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body)
Notes:
1. Meets the requirements of EN 54-3 at the following tone settings:
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 - Continuous Tone, 970Hz
Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. The wall mounted VAD meets the requirements of EN 54-23 for the following:
- Category W-2.5-7
- Flash rate - 0.5Hz
- Synchronization | 928y/01 |
| Axis-CWSV + Axis-WSM | Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body)
Notes:
1. Meets the requirements of EN 54-3 at the following tone settings:
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 - Continuous Tone, 970Hz
Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. The wall mounted VAD meets the requirements of EN 54-23 for the following:
- Category W-2.5-7
- Flash rate - 0.5Hz
- Synchronization | 928z/01 |
| Axis-CWSV/WH | Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body)
Notes:
1. Meets the requirements of EN 54-3 at the following tone settings:
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 - Continuous Tone, 970Hz
Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. The wall mounted VAD meets the requirements of EN 54-23 for the following:
- Category W-2.5-7
- Flash rate - 0.5Hz
- Synchronization | 928y/01 |
| Axis-CWSV/WH + Axis-WSM | Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body)
Notes:
1. Meets the requirements of EN 54-3 at the following tone settings:
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 - Continuous Tone, 970Hz
Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. The wall mounted VAD meets the requirements of EN 54-23 for the following:
- Category W-2.5-7 | 928z/01 |

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

- Flash rate 0.5Hz
- Synchronization
- 3. Device is only addressable when used in conjunction with Axis-WSM

LPCB Ref.
No.

Ancillaries

Axis-WSM Addressable module with short circuit isolator

Al Rayan Security & Safety Trading

Warehouse No, 12, Al Qusais Industrial Area 4, P O Box 233949, Dubai, United Arab Emirates

Tel: +971 42630396 • Fax: +971 42630397

E-mail: rayandxb@eim.ae • Website: www.rayandxb.ae

Certificate No: 1174c-(cl-5) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products

SC-6734

Conventional Type A Sounder Strobe (SB-6711 Base) (branded as SECURE)

Notes:

1. Meets the requirements of EN 54-3 and approved at the following tones:
 - 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz
 - 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off

2. The strobe function is not included within the scope of this approval

SI-6737

Addressable Type A Indoor Digital Sounder Beacon (SB-6619 Base) (branded as SECURE)

Notes:

1. Meets the requirements of EN 54-3 and approved at the following tones:

- 1) Tone 00, 2400Hz - 2900Hz @ 3Hz
- 2) Tone 01, 2400Hz - 2900Hz @ 9Hz
- 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off
- 4) Tone 14, 1500Hz - 2700Hz @ 3Hz

2. The beacon function is not included within the scope of this approval

LPCB Ref.
No.

1174c/01

1174c/02

Base

SB-6711 Base

SB-6619 Mounting Base

Al Tahadi Security And Safety Equipment Trading

PO Box 45668, Ind. Area 11, Sharjah, United Arab Emirates

Tel: +971 5 0868 4543 • Fax: +971 6535 9220

E-mail: Sharqawi61@yahoo.com • Website: www.tahadi-fire.com

Certificate No: 506e-(cl-10) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

OM-0218

Conventional Fire Alarm Bell

OM-03127-BS

Conventional Type B Electronic Sounder Beacon

Notes: 1. Meets the requirements of EN 54-3: 2001 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz

2 - Sweeping 800/970Hz at 7Hz

2. The beacon functionality is not included within the scope of approval.

LPCB Ref.
No.

506e/01

506e/03

Ampac Pty Ltd

7 Ledger Road, Balcatta 6021, Australia
Tel: +618 (9242) 3333 • Fax: +618 (9242) 3334
E-mail: askellham@ampac.net • Website: www.ampac.net

Certificate No: 010ak-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices
Certificated Products

		LPCB Ref. No.
55000-001AMP	XP95 Type B Intelligent Open Area Sounder (Red) (45681-518AMP enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/01
58000-005AMP	Discovery Type B Intelligent Open Area Sounder Beacon (Red) (45681-518AMP enhanced deep isolating bases) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off T4- German DIN1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/05

Bases:

45681-517AMP Enhanced deep isolating base (White)
45681-518AMP Enhanced deep isolating base (Red)

Apollo Fire Detectors Limited

36 Brookside Road, Havant, Hampshire PO9 1JR, United Kingdom
Tel: +44 (0)2392 492412 • Fax: +44 (0)2392 492754
E-mail: enquiries@apollo-fire.co.uk

Certificate No: 010ak to EN54-3: 2001 +A1:2002 +A2:2006

Certificate No: 010ax to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Sounders
Certificated Products

		LPCB Ref. No.
55000-001	Intelligent Sounder Open-Area (Red) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/01
55000-002	Intelligent Sounder Open-Area (White) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	010ak/02
55000-005	Intelligent Sounder Visual Indicator Open-Area (Red) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/03

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
55000-006 Intelligent Sounder Visual Indicator Open-Area (White) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/04
58000-005 Discovery Type B intelligent open area sounder beacon (Red) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off T4- German DIN1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/05
58000-007 Discovery Type B intelligent open area sounder beacon (White) (45681-517 and 45681-518 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: T1- Apollo Evacuation 558Hz,0.5s/840Hz,0.5s T3- Dutch Slow Whoop 500-1200Hz in 3.5s, 0.5s off T4- German DIN1200-500Hz over 1s	010ak/06
45681-7020 Discovery Sounder Base (White) with Isolator (45681-292 and 45681-293 Caps) Note: 1. Meets the requirements of EN 54-3: 2001 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s/0Hz, 0.5s off Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz Tone 17 Swedish all clear signal - Continuous - 660Hz 2. Type A and approved for sounder volumes 2-7 only.	010ax/01
55000-017 45681-292 White Cap (Lockable) 45681-293 Red Cap (Lockable) AlarmSense Open-Area Sounder Visual Indicator (45681-523 Base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tone: Evacuate tone - 840 Hz for 0.5sec, 558 Hz for 0.5sec	010ak/07
55000-018 AlarmSense Open-Area Sounder (45681-523 Base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tone: Evacuate tone - 840 Hz for 0.5sec, 558 Hz for 0.5sec	010ak/08
SA5300-300 Type A Base Sounder with Short Circuit Isolator (SA5000-200 Base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 Apollo Evacuate Tone - 550Hz, 0.5sec / 825Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) - 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep - 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop - 500Hz-1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone - 1200Hz-500Hz over 1sec Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 825Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 825Hz Tone 17 Swedish All Clear Continuous - 660Hz	010ax/08
SA5300-350 Type A Base Sounder Visual Indicator (White Flash) with Short Circuit Isolator (SA5000-200 Base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 Apollo Evacuate Tone - 550Hz, 0.5sec / 825Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) - 925Hz for 0.25sec / 626Hz for 0.25sec	010ax/09

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
Tone 14 Medium Sweep - 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop - 500Hz-1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone - 1200Hz-500Hz over 1sec Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 825Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 825Hz Tone 17 Swedish All Clear Continuous - 660Hz SA5300-351 Type A Base Sounder Visual Indicator (Red Flash) with Short Circuit Isolator (SA5000-200 Base)	010ax/10
Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 Apollo Evacuate Tone - 550Hz, 0.5sec / 825Hz, 0.5sec Tone 12 Alternating (Hochiki & Fulleon) - 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 Medium Sweep - 800Hz to 970Hz at 1Hz Tone 3 Dutch Slow Whoop - 500Hz-1200Hz in 3.5s, 0.5s off Tone 4 German DIN Tone - 1200Hz-500Hz over 1sec Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 825Hz for 1s Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 825Hz Tone 17 Swedish All Clear Continuous - 660Hz	
SA5500-300 Intelligent Open Area Sounder (Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210)	010ax/02
Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz	
SA5501-300 2. Type A Intelligent Open Area Sounder (White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210)	010ax/03
Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz	
SA5500-350 2. Type A Intelligent Open Area Sounder Visual Indicator (White Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210)	010ax/04
Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz	

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

		LPCB Ref. No.
SA5501-350	Intelligent Open Area Sounder Visual Indicator (White Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/05
SA5500-351	Intelligent Open Area Sounder Visual Indicator (Red Flash, Red Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/06
SA5501-351	Intelligent Open Area Sounder Visual Indicator (Red Flash, White Body) with Short Circuit Isolator (SA5000-200, SA5000-202 and 45681-210) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: Tone 21 - Apollo Evacuation Tone 522Hz, 0.5sec / 707 Hz, 0.5sec Tone 12 - Alternating (Hochiki & Fulleon) 925Hz for 0.25sec / 626Hz for 0.25sec Tone 14 - Medium Sweep 800Hz to 970Hz at 1Hz Tone 3 - Dutch Slow Whoop 500Hz 1200Hz in 3.5s, 0.5s off Tone 4 - German DIN Tone (sweep) 1200Hz 500Hz over 1sec Tone 18 - Swedish Fire Tone 660Hz, 150ms on, 150ms off Tone 22 - Apollo Alert Tone 1s off, 707Hz for 1s Tone 11 - Continuous (Hochiki & Fulleon) 925Hz Tone 13 - Continuous 970Hz Tone 2 - Continuous 825Hz Tone 17 - Swedish All Clear Continuous 660Hz 2. Type A	010ax/07

Bases:

45681-517	Enhanced deep isolating base (White)
45681-518	Enhanced deep isolating base (Red)
45681-523	AlarmSense Open Area Base
SA5000-200	XPERT8 (White) Intelligent Base
SA5000-202	XPERT8 (Red) Intelligent Base
45681-210	Intelligent Mounting Base

Certificate No: 010aw to EN54-23: 2010, EN54-3: 2001 + A1:2002 + A2: 2006 and EN54-17: 2005

Alarm Warning Devices

Certificated Products

		LPCB Ref. No.
45681-700	Discovery Sounder Visual Alarm Device Base (White) with Isolator (45681-292 and 45681-293 Caps) Notes: 1. The VAD is rated as open class: (Refer to installation guide). 2. The VAD operating voltage range 17-28V DC (24V nominal). 3. The VAD Light mode (light pattern details): 0.5Hz mode only. 4. The VAD includes a short circuit isolator. 5. The VAD is a Type A device and includes synchronisation	010aw/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

6. Meets the requirements of EN 54-3: 2001 at the following tone settings:
Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s
Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s
Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz
Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, off for 0.5s
Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s
Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off
Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz
Tone 11 Continuous (Hochiki & Fulleon) - 925Hz
Tone 13 Continuous - 970Hz
Tone 2 Continuous - 850Hz
Tone 17 Swedish all clear signal - Continuous - 660Hz
7. Approved for sounder volumes 2-7 only

Accessories:

- | | | |
|-----------|--|----------|
| 45681-701 | 45681-292 White Cap (Lockable)
45681-293 Red Cap (Lockable)
Discovery Marine Sounder Visual Alarm Device Base (White) with Isolator (45681-292 and 45681-293 Caps) | 010aw/02 |
|-----------|--|----------|

Notes:

1. The VAD is rated as open class: (Refer to installation guide).
2. The VAD operating voltage range 17-28V DC (24V nominal).
3. The VAD Light mode (light pattern details): 0.5Hz mode only.
4. The VAD includes a short circuit isolator.
5. The VAD is a Type A device and includes synchronisation.
6. Meets the requirements of EN 54-3: 2001 at the following tone settings:
Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s
Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s, 626Hz for 0.25s
Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz
Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, off for 0.5s
Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s
Tone 18 Swedish Fire Tone - 660 Hz, 150ms on, 150ms off
Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz
Tone 11 Continuous (Hochiki & Fulleon) - 925Hz
Tone 13 Continuous - 970Hz
Tone 2 Continuous - 850Hz
Tone 17 Swedish all clear signal - Continuous - 660Hz
7. Approved for sounder volumes 2-7 only

Accessories:

- | | | |
|-----------|--|----------|
| 45681-705 | 45681-292 White Cap (Lockable)
45681-293 Red Cap (Lockable)
XP95 Sounder Visual Alarm Device Base (white) with Isolator (45681-292 and 45681-293 Caps) | 010aw/03 |
|-----------|--|----------|

Notes:

1. The VAD is rated as open class: (Refer to installation guide).
2. The VAD operating voltage range 17-28V DC (24V nominal).
3. The VAD Light mode (light pattern details): 0.5Hz mode only.
4. The VAD includes a short circuit isolator.
5. The VAD is a Type A device and includes synchronisation.
6. Meets the requirements of EN 54-3: 2001 at the following tone settings:
Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz off for 0.5s
Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz
7. Approved for sounder volumes 2-7 only.

Accessories:

- | | | |
|-----------|---|----------|
| 45681-706 | 45681-292 White Cap (Lockable)
45681-293 Red Cap (Lockable)
XP95 Sounder Visual Alarm Device Base (white) Slow Whoop with Isolator (45681-292 and 45681-293 Caps) | 010aw/04 |
|-----------|---|----------|

Notes:

1. The VAD is rated as open class: (Refer to installation guide).
2. The VAD operating voltage range 17-28V DC (24V nominal).
3. The VAD Light mode (light pattern details): 0.5Hz mode only.
4. The VAD includes a short circuit isolator.
5. The VAD is a Type A device and includes synchronisation.
6. Meets the requirements of EN 54-3: 2001 at the following tone settings:
Tone 2 Continuous - 850Hz

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

	<p><i>Tone 3 Dutch Slow Whoop (sweep) - 500 Hz - 1200Hz for 3.5s/0Hz, off for 0.5s</i></p> <p>7. <i>Approved for sounder volumes 2-7 only.</i></p> <p>Accessories:</p> <p>45681-292 <i>White Cap (Lockable)</i> 45681-293 <i>Red Cap (Lockable)</i></p>	
45681-707	<p>XP95 Sounder Visual Alarm Device Base (white) DIN with Isolator (45681-292 and 45681-293 Caps)</p> <p>Notes:</p> <ol style="list-style-type: none">1. <i>The VAD is rated as open class: (Refer to installation guide).</i>2. <i>The VAD operating voltage range 17-28V DC (24V nominal).</i>3. <i>The VAD Light mode (light pattern details): 0.5Hz mode only.</i>4. <i>The VAD includes a short circuit isolator function</i>5. <i>The VAD is a Type A device and includes synchronisation.</i>6. <i>Meets the requirements of EN 54-3: 2001 at the following tone settings:</i> <i>Tone 4 DIN Tone (sweep) - 1200Hz - 500Hz for 1s</i> <i>Tone 2 Continuous - 850Hz</i>7. <i>Approved for sounder volumes 2-7 only.</i> <p>Accessories:</p> <p>45681-292 <i>White Cap (Lockable)</i> 45681-293 <i>Red Cap (Lockable)</i></p>	010aw/05

Certificate No: 010ay to EN 54-17: 2005 and EN 54-23: 2010

Certificate No: 010ba to EN 54-23:2010

Certificate No: 010bl to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010

Alarm Warning Devices

Certificated Products

LPCB Ref.
No.

45681-709	<p>XP95 Visual Alarm Device Base (White) with Isolator</p> <p>Notes:</p> <ol style="list-style-type: none">1. <i>The VAD is rated as open class: (Refer to installation guide).</i>2. <i>The VAD operating voltage range 17-28V DC (24V nominal).</i>3. <i>The VAD Light mode (light pattern details): 0.5Hz mode only.</i>4. <i>The VAD includes a short circuit isolator.</i>5. <i>The VAD is a Type A device and includes synchronisation.</i> <p>Accessories:</p> <p>45681-292 <i>White Cap (Lockable)</i> 45681-293 <i>Red Cap (Lockable)</i></p>	010ay/01
55000-740	<p>Loop-Powered Type A VAD 15m (Red)</p> <ol style="list-style-type: none">1. <i>The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</i><ul style="list-style-type: none">- <i>Category rating C-3-15</i>- <i>Synchronization</i>- <i>Flash rate 0.5 Hz</i>- <i>White LED</i>- <i>Clear lens</i>2. <i>Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base</i>	010ba/01
55000-741	<p>Loop-Powered Type A VAD 6m (Red)</p> <p>Notes:</p> <ol style="list-style-type: none">1. <i>The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:</i><ul style="list-style-type: none">- <i>Category rating W-2.4-6</i>- <i>Synchronization</i>- <i>Flash rate 0.5 Hz</i>- <i>White LED</i>- <i>Clear lens</i>2. <i>Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base</i>	010ba/02
55000-742	<p>Loop-Powered Type A VAD 8.5m (Red)</p> <ol style="list-style-type: none">1. <i>The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</i><ul style="list-style-type: none">- <i>Category rating C-3-8.5</i>- <i>Synchronization</i>	010ba/03

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<ul style="list-style-type: none"> - Flash rate 0.5 Hz - White LED - Clear lens 	
<p>55000-743</p> <p>2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base</p> <p>Loop-Powered Type A VAD 15m (White)</p> <p>1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Category rating C-3-15 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 	010ba/04
<p>55000-744</p> <p>2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base</p> <p>Loop-Powered Type A VAD 6m (White)</p> <p>Notes:</p> <p>1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Category rating W-2.4-6 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 	010ba/05
<p>55000-745</p> <p>2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base</p> <p>Loop-Powered Type A VAD 8.5m (White)</p> <p>1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Category rating C-3-8.5 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 	010ba/06
<p>55000-070</p> <p>2. Approved with XP95/Discovery 45681-210 mounting base and 45681-284 short circuit isolating base</p> <p>XP95 VAD C-3-15 (White Flash) (45681-518 base)</p> <p>Notes:</p> <p>1. Approved for Type B Outdoor use</p> <p>2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-15 	010ba/07
<p>55000-071</p> <p>XP95 VAD C-3-9 (Red Flash) (45681-518 base)</p> <p>Notes:</p> <p>1. Approved for Type B Outdoor use</p> <p>2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-9 	010ba/08
<p>55000-072</p> <p>XP95 VAD W-3.1-11.3 (White Flash) (45681-518 base)</p> <p>Notes:</p> <p>1. Approved for Type B Outdoor use</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-3.1-11.3 	010ba/09
<p>55000-073</p> <p>XP95 VAD W-2.4-7.49 (Red Flash) (45681-518 base)</p> <p>Notes:</p> <p>1. Approved for Type B Outdoor use</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-2.4-7.49 	010ba/10
<p>55000-074</p> <p>XP95 Sounder VAD C-3-15 (White Flash) (45681-518 base)</p> <p>Notes:</p> <p>1. Approved for Type A Indoor use only</p> <p>2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Synchronization 	010bl/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref. No.

55000-075	<p>- Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-15</p> <p>3. Meets the requirements of EN 54-3:2001 at the following tones:</p> <ul style="list-style-type: none">- Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s- Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off- Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s- Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off- Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>XP95 Sounder VAD C-3-9 (Red Flash) (45681-518 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Approved for Type A Indoor use only2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-93. Meets the requirements of EN 54-3:2001 at the following tones: - Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s - Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off - Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s - Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off - Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>XP95 Sounder VAD W-3.1-11.3 (White Flash) (45681-518 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Approved for Type A Indoor use only2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-3.1-11.33. Meets the requirements of EN 54-3:2001 at the following tones: - Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s - Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off - Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s - Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off - Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>XP95 Sounder VAD W-2.4-7.49 (Red Flash) (45681-518 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Approved for Type A Indoor use only2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-2.4-7.493. Meets the requirements of EN 54-3:2001 at the following tones: - Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s - Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off - Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s - Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off - Tone 5: Alert Tone (Continuous), 848Hz, continuous	010bl/02
55000-076	<p>- Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-15</p> <p>3. Meets the requirements of EN 54-3:2001 at the following tones:</p> <ul style="list-style-type: none">- Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s- Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off- Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s- Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off- Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>XP95 Sounder VAD W-3.1-11.3 (White Flash) (45681-518 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Approved for Type A Indoor use only2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-3.1-11.33. Meets the requirements of EN 54-3:2001 at the following tones: - Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s - Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off - Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s - Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off - Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>XP95 Sounder VAD W-2.4-7.49 (Red Flash) (45681-518 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Approved for Type A Indoor use only2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-2.4-7.493. Meets the requirements of EN 54-3:2001 at the following tones: - Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s - Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off - Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s - Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off - Tone 5: Alert Tone (Continuous), 848Hz, continuous	010bl/03
55000-077	<p>- Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-15</p> <p>3. Meets the requirements of EN 54-3:2001 at the following tones:</p> <ul style="list-style-type: none">- Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s- Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off- Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s- Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off- Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>XP95 Sounder VAD W-2.4-7.49 (Red Flash) (45681-518 base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Approved for Type A Indoor use only2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Synchronization - Flash rate 0.5 Hz, 1 Hz - Category setting: W-2.4-7.493. Meets the requirements of EN 54-3:2001 at the following tones: - Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s - Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off - Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s - Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off - Tone 5: Alert Tone (Continuous), 848Hz, continuous	010bl/04
55000-738	<p>- Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-8</p> <p>3. Meets the requirements of EN 54-3:2001 at the following tones:</p> <ul style="list-style-type: none">- Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s- Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off- Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s- Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off- Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>Loop-Powered Type A VAD (Red)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronisation - Flash rate 0.5Hz - Red LED - Clear lens2. Approved with XP95/Discovery 45681-210 mounting base	010ba/11
55000-739	<p>- Flash rate 0.5 Hz, 1 Hz - Category setting: C-3-8</p> <p>3. Meets the requirements of EN 54-3:2001 at the following tones:</p> <ul style="list-style-type: none">- Tone 1, Apollo Standard Tone, 848Hz, 0.5s / 569Hz, 0.5s- Tone 2, Dutch Slow Whoop, 500 - 1200Hz in 3.5s, 0.5s off- Tone 3, German DIN Tone, 1200Hz - 500Hz over 1s- Tone 4, Alert Tone (Pulsed), 848Hz, 1s on, 1s off- Tone 5: Alert Tone (Continuous), 848Hz, continuous <p>Loop-Powered Type A VAD (White)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8 - Synchronisation - Flash rate 0.5Hz - Red LED - Clear lens2. Approved with XP95/Discovery 45681-210 mounting base	010ba/12

Bases:

45681-210 XP95/Discovery mounting base
45681-284 XP95/Discovery short circuit isolating base

45681-518 Enhanced Deep Isolating Base (Red)

Argus Security S.r.l.

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Certificate No: 928w to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 928x to EN 54-23: 2010

Certificate No: 928ah to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005

Sounders

Certificated Products

		LPCB Ref. No.
VBS100/32	Conventional Indoor Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: Tone 1 - Warble Tone (800-1000Hz @ 0.5 Sec) Tone 3 - Slow Whoop (Dutch) (500-1200Hz for 3.5s on, 0.5s off) Tone 4 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) Tone 12 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) Tone 23 - LF Sweep (800-1000Hz @ 0.5 Sec)2. Cover Plate (white) - Part no. 116-125	928w/01
ALBS100/32	Conventional Indoor Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: Tone 1 - Warble Tone (800-1000Hz @ 0.5 Sec) Tone 3 - Slow Whoop (Dutch) (500-1200Hz for 3.5s on, 0.5s off) Tone 4 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) Tone 12 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) Tone 23 - LF Sweep (800-1000Hz @ 0.5 Sec) 2. Cover Plate (white) - Part no. 116-125	928w/02
VBLS100-32	Vega Addressable Type A Sounder Base Note: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s Sweep (1Hz)	928w/03
VBLS100-32/AV	Vega Addressable Type A Sounder Beacon Base Notes:1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s Sweep (1Hz)2. The beacon function is not included within the scope of this approval	928w/04
ALBLS100-32	Altair Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)2. Cover plate (LID100 - AL/W or AL/R)	928w/05
ALBLS100-32/AV	Altair Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)2. The beacon function is not included within the scope of this approval3. Cover plate (LID100 - AL/W or AL/R)	928w/06
CBE1001	Conventional Type A Beacon (1 Flash Every Second) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-7.5 - Synchronization - Flash rate 1Hz - White LED - Clear lens2. Approved with LAB1000 base	928x/01
CBE1002	Conventional Type A Beacon (1 Flash Every 2 Seconds) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-7.5 - Synchronization - Flash rate 0.5Hz - White LED - Clear lens2. Approved with LAB1000 base	928x/02
CWS100	Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms	928w/07

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
CWS100+ALWS-MOD	<p><i>Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i></p> <p>Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings:</p> <p><i>Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms</i></p> <p><i>Tone 2 - Continuous Tone, 970Hz</i></p> <p><i>Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i></p> <p><i>Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i></p>	928ah/01
CWS100(W)	<p>2. Device is only addressable when used in conjunction with ALWS-MOD</p> <p>Conventional Type A/B (Indoor/Outdoor) Wall Sounder (White Body)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings:</p> <p><i>Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms</i></p> <p><i>Tone 2 - Continuous Tone, 970Hz</i></p> <p><i>Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i></p> <p><i>Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i></p>	928w/07
CWS100 (W) +ALWS-MOD	<p>Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (White Body)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings:</p> <p><i>Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms</i></p> <p><i>Tone 2 - Continuous Tone, 970Hz</i></p> <p><i>Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i></p> <p><i>Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i></p> <p>2. Device is only addressable when used in conjunction with ALWS-MOD</p>	928ah/01

Detectors:

SG100 Wireless optical smoke detector
SG200 Wireless multi-criteria detector
SG350 Wireless heat detector
ALWS-MOD Addressable module with short circuit isolator

Bases

LAB1000 Base adaptor

Certificate No: 928y to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-23: 2010

Certificate No: 928z to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005, EN 54-23: 2010

Certificated Products		LPCB Ref. No.
CWS100-AV	<p>Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings:</p> <p><i>Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms</i></p> <p><i>Tone 2 - Continuous Tone, 970Hz</i></p> <p><i>Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i></p> <p><i>Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i></p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Category W-2.5-7- Flash rate - 0.5Hz- Synchronization	928y/01
CWS100-AV+ALWS-MOD	<p>Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings:</p> <p><i>Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms</i></p> <p><i>Tone 2 - Continuous Tone, 970Hz</i></p> <p><i>Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i></p> <p><i>Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i></p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Category W-2.5-7- Flash rate - 0.5Hz- Synchronization	928z/01
CWS100-AV (W)	<p>3. Device is only addressable when used in conjunction with ALWS-MOD</p> <p>Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (White Body)</p>	928y/01

Certificated Products

LPCB Ref. No.

CWS100-AV (W) + ALWS-MOD	<p><i>Notes:</i> 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p> <p>Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body)</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with ALWS-MOD</p>	928z/01
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ALWS-MOD Addressable module with short circuit isolator

Argus Spectrum International

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Certificate No: 603k to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-25:2008

Certificate No: 603m to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-25:2008

Certificate No: 603n to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-5:2000 + A1:2002 & EN 54-25:2008

Audible Warning Devices

Certificated Products

LPCB Ref. No.

ARG-WL8-SND	<p>Wireless Type A Indoor Sounder</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-3:2001 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)</p>	603k/01
ARG-WL8-OS	<p>Wireless Optical Smoke Detector with Type A Built-in Sounder</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-3:2001 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) 2. Approved to EN 54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)</p>	603m/01
ARG-WL8-HS	<p>Wireless Class A1R Heat Detector with Type A Built-in Sounder</p> <p><i>Notes:</i> 1. Meets the requirements of EN 54-3:2001 for the following tones:</p>	603n/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

- One tone Steady, 3500Hz (On)
 - One tone Meander, 3500Hz (1s On / 1s Off)
 - One tone Meander, 3500Hz (2s On / 2s Off)
 - Two tone, 3500Hz & 2150Hz (1s / 1s)
 - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s)
 - One tone intermittent, 3500Hz (0.2s On / 1.3s Off)
2. The device must be used with the following batteries only:
- Primary CR123A (3V)
 - Secondary CR123A (3V)

LPCB Ref.
No.

Armor Safety & Security Ltd

120 Baker Street, London W1U 6TU, United Kingdom

Tel: +971506531199

Website: www.armorsafety.org

Certificate No: 928y-(cl-6) to EN54-3:2001 + A1: 2002 + A2: 2006, EN 54-23:2010

Certificated Products

ARM-CWSV

Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:

Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms

Tone 2 Continuous Tone, 970Hz

Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms

Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)². The wall mounted VAD meets the requirements of EN 54-23 for the following:

- Category W-2.5-7

- Flash rate - 0.5Hz

- Synchronization

LPCB Ref.
No.

928y/01

Certificate No: 928ah-(cl-6) to EN 54-3:2001 + A1: 2002 + A2: 2006, EN 54-17:2005, EN 54-18: 2005

Certificate No: 928w-(cl-6) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products

ARM-CWS + ARM-WSM

Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:

Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms

Tone 2 Continuous Tone, 970Hz

Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms

Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)

2. Device is only addressable when used in conjunction with ARM-WSM

ARM-CWS

Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:

Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms

Tone 2 Continuous Tone, 970Hz

Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms

Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)

LPCB Ref.
No.

928ah/01

928w/07

Ancillaries

ARM-WSM

Addressable module with short circuit isolator

Certificate No: 928z-(cl-7) to EN 54-3: 2001 + A1: 2006 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005, EN 54-23:2010

Certificated Products

ARM-CWSV + ARM-WSM Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body)
Notes:
1. *Meets the requirements of EN 54-3 at the following tone settings:*
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 - Continuous Tone, 970Hz
Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. *The wall mounted VAD meets the requirements of EN 54-23 for the following:*
- Category W-2.5-7
- Flash rate 0.5Hz
- Synchronization
3. *Device is only addressable when used in conjunction with ARM-WSM*

LPCB Ref. No.
928z/01

Ancillaries

ARM-WSM Addressable module with short circuit isolator

ASENWARE LTD

6 Prospect Way, Royal Oak Industrial Estate, Daventry, Northamptonshire NN11 8PL, United Kingdom
Tel: +8613828765759
E-mail: info@asenware.com

Certificate No: 1426a-(cl-2) to EN 54-3: 2001 + A1: 2002 + A2: 2006 EN 54-23: 2010

Certificated Products

AW-D316 Conventional Sounder Beacon
Notes:
1) *Meets the requirements of EN 54-23 at the following:*
- Category C-3-8 + W-2.4-6
- Flash rate 0.5Hz
- One Mode (Light output synchronization)
- Flash Colour White
- For wall and ceiling mounting
2) *Meets the requirements of EN 54-3 at the following tone:*
- Tone 1: 667Hz - 2000Hz@0.22Hz
AW-D306 Addressable Sounder Beacon (DZ-9091 Base)
Notes:
1) *Meets the requirement of EN 54-23 at the following:*
- Category C-3-8 + W-2.4-6
- Flash Rate 0.5Hz
- One Mode (Light output synchronization)
- Flash Colour White
- For wall and ceiling mounting
2) *Meets the requirements of EN 54-3 at the following tone:*
- Tone 1: 667Hz - 2000Hz@0.22Hz

LPCB Ref. No.
1426a/01

1426a/02

Base

DZ-9091K
DZ-9091

ASI Oy Ltd (Argus Spectrum International)

Laitaatsillantie 3, Savonlinna 57170, Finland
Tel: +358 20 730 8550
E-mail: mail@argusspectrum.com • Website: https://argusspectrum.com/

Certificate No: 1571f to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-25:2008
Certificate No: 1571g to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-7:2000 + A1:2002 + A2:2006 & EN 54-25:2008
Certificate No: 1571h to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-5:2000 + A1:2002 & EN 54-25:2008

PART 1: SECTION 7

ALARM WARNING DEVICES

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
ARF-WL8-SND	Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01
ARF-WL8-OS	Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571g/01
EK-WL8-SND	(EKHO Brand) Wireless Type A Indoor Sounder Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Pulse tone, 990Hz (500ms On / 500ms Off) - Dual tone, 990Hz & 650Hz (250ms ~ 250ms) - Continuous tone, 990Hz - Pulsed tone (synchronized), 990Hz (1s On / 1s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571f/01
EK-WL8-OS	(EKHO Brand) Wireless Optical Smoke Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) 2. Approved to EN54-7 at the following sensitivity settings: - High - Normal - Low 3. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571g/01
ARF-WL8-HS	Wireless Class A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s) - Two tone, 3500Hz & 2150Hz (0.4s / 0.4s) - One tone intermittent, 3500Hz (0.2s On / 1.3s Off) 2. The device must be used with the following batteries only: - Primary CR123A (3V) - Secondary CR123A (3V)	1571h/01
EK-WL8-HS	(EKHO Brand) Wireless Class A1R Heat Detector with Type A Built-in Sounder Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones: - One tone Steady, 3500Hz (On) - One tone Meander, 3500Hz (1s On / 1s Off) - One tone Meander, 3500Hz (2s On / 2s Off) - Two tone, 3500Hz & 2150Hz (1s / 1s)	1571h/01

Certificated Products

LPCB Ref. No.

- Two tone, 3500Hz & 2150Hz (0.4s / 0.4s)
- One tone intermittent, 3500Hz (0.2s On / 1.3s Off)
- 2. The device must be used with the following batteries only:
 - Primary CR123A (3V)
 - Secondary CR123A (3V)

ATEIS Middle East FZCO

LIU 11 Dubai Silicon Oasis, Post Box 293640, Dubai, United Arab Emirates
 Tel: +971 4 3262730 • Fax: +971 4 3262731
 E-mail: info@ateis.ae • Website: www.ateis.ae

Certificate No: 1154g to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005

Certificated Products

LPCB Ref. No.

VELOX 40300	Analogue Addressable Type A Sounder with Short Circuit Isolator <i>Note</i> Meets the requirements of EN 54-3 at the following tone settings: Dual tone: 990Hz and 650Hz, 2Hz (250ms-250ms) Pulsed tone: 990Hz, 1Hz (500ms ON - 500ms OFF) Continuous tone: 990Hz, steady	1154g/01
VELOX 40300-H	Analogue Addressable Type A Sounder with Short Circuit Isolator <i>Note</i> Meets the requirements of EN 54-3 at the following tone settings: Slow whoop tone 500Hz to 1200Hz, 3s sweep, 0.5s silence Sweep (DIN) tone 1200Hz to 500Hz, 1Hz Continuous tone 990Hz, steady	1154g/02
VLS100	Analogue Addressable Type A Sounder with Short Circuit Isolator <i>Note:</i> Meets the requirements of EN 54-3 at the following tone settings: Dual tone: 990Hz and 650Hz, 2Hz (250ms-250ms) Pulsed tone: 990Hz, 1Hz (500ms ON - 500ms OFF) Continuous tone: 990Hz, steady	1154g/01
VLS100-H	Analogue Addressable Type A Sounder with Short Circuit Isolator <i>Note:</i> Meets the requirements of EN 54-3 at the following tone settings: Slow whoop tone 500Hz to 1200Hz, 3s sweep, 0.5s silence Sweep (DIN) tone 1200Hz to 500	1154g/02

Detectors:

- VELOX WL100 Wireless optical smoke detector
- VELOX WL200 Wireless multi-criteria detector
- VELOX WL350 Wireless heat detector

Autronica Fire & Security AS

Postboks 5620 NO-7483, Trondheim, Norway
 Tel: +47 73582500 • Fax: +47 73582501
 E-mail: info@autronicafire.no • Website: www.autronicafire.no

Certificate No: 378h-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificated Products

LPCB Ref. No.

116-BBR-230	Addressable indoor sounder with isolator <i>Notes:</i> 1) meets the requirements of EN 54-3: 2001 for the following tones: - General Alarm (880Hz, 7*0.5 sec pulse & 1*5.5) - Evacuate (880Hz, 1 sec on / 1 sec off, forever) - Alert (880Hz On, forever) - Bell Test (0.5 sec on every 8 sec) - Slow Whoop (3.5 sec on / 0.5 sec off, 500-1200 Hz)	378h/03
116-BBR-230/IP	Addressable outdoor sounder with isolator <i>Notes:</i> 1) meets the requirements of EN 54-3: 2001 for the following tones:	378h/04

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
116-BBR-130 - General Alarm (880Hz, 7*0.5 sec pulse & 1*5.5) - Evacuate (880Hz, 1 sec on / 1 sec off, forever) - Alert (880Hz On, forever) - Bell Test (0.5 sec on every 8 sec) - Slow Whoop (3.5 sec on / 0.5 sec off, 500-1200 Hz) Addressable indoor base sounder with isolator Notes: 1) meets the requirements of EN 54-3: 2001 for the following tones: - General Alarm (880Hz, 7*0.5 sec pulse & 1*5.5) - Evacuate (880Hz, 1 sec on / 1 sec off, forever) - Alert (880Hz On, forever) - Bell Test (0.5 sec on every 8 sec) - Slow Whoop (3.5 sec on / 0.5 sec off, 500-1200 Hz)	378h/05
116-BBQ-130 Addressable indoor base sounder and beacon with isolator Notes: 1) meets the requirements of EN 54-3: 2001 for the following tones: - General Alarm (880Hz, 7*0.5 sec pulse & 1*5.5) - Evacuate (880Hz, 1 sec on / 1 sec off, forever) - Alert (880Hz On, forever) - Bell Test (0.5 sec on every 8 sec) - Slow Whoop (3.5 sec on / 0.5 sec off, 500-1200 Hz) 2) the beacon functionality is not included within the scope of this approval	378h/06

Beijing Leader Huaxin Electronics Co. Ltd

No. 17 Rongjing Eastern Road, Economy & Technology Developed Area, Beijing 100176, China

Tel: +86 10 67876681 • Fax: +86 10 67863972

E-mail: hy.chen@beijingleader.com.cn • Website: www.beijingleader.com.cn

Certificate No: 987f to EN 54-2: 2001 + A1: 2002 + A2: 2006

Certificated Products	LPCB Ref. No.
LD10001EN Analogue Addressable Sounder Strobe (LD11EN Base) Notes: 1. Meets the requirements of EN 54-3: 2001 for all output levels at voltage range 18-26Vdc and tones: 1. 1.3 kHz - 2.3kHz Certification excludes strobe function.	987f/01

Base

LD11EN Mounting base

Beijing VSAIL Fire Protection Equipment Co Ltd

No. 401, Unit A, Building 32,, No. 99 14th Kechuang Street, BDA, Beijing 100176, China

Tel: +86 10-56691196 • Fax: +86 10-56691100

E-mail: erichenx@vsail.com.cn • Website: www.vsail.com.cn

Certificate No: 1174c to EN 54-3:2001 + A1:2002 + A2:2006

Visual Warning Devices

Certificated Products	LPCB Ref. No.
VC-6734 Conventional Type A Sounder Strobe (VB-6711 base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval.	1174c/01

Certificated Products

VI-6737 Addressable Type A Indoor Digital Sounder Beacon (VB-6619 Base)
Notes:
1. Meets the requirements of EN 54-3 and approved at the following tones:
1) Tone 00, 2400Hz - 2900Hz @ 3Hz
2) Tone 01, 2400Hz - 2900Hz @ 9Hz
3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off
4) Tone 14, 1500Hz - 2700Hz @ 3Hz
2. The beacon function is not included within the scope of this approval.

LPCB Ref. No.
1174c/02

Base
VB-6711
VB-6619

Brilliant Lighting Limited

Brilliant Lighting Limited, Flat 2, 18/F, Block E, Wah Lok Industrial Centre, Shan Mei Street, Fotan, Shatin, Hong Kong

Tel: +825 26903037

E-mail: leo@brillianthk.com.hk

Certificate No: 1592a-(cl-1) to EN 54-3:2014 + A1:2019

Audible Warning Devices

Certificated Products

ABA-6-24 a&b 6 Fire Alarm Bell with Aluminium Gong
Notes:
1. Type A
2. Meets the requirements of EN 54-3 for the following tones:
(i) one tone (bell)

ABA-8-24 a&b 8 Fire Alarm Bell with Aluminium Gong
Notes:
1. Type A
2. Meets the requirements of EN 54-3 for the following tones:
(i) one tone (bell)

ABA-10-24 a&b 10 Fire Alarm Bell with Aluminium Gong
Notes:
1. Type A
2. Meets the requirements of EN 54-3 for the following tones:
(i) one tone (bell)

LPCB Ref. No.
1592a/01

1592a/02

1592a/03

Bristol Fire Engineering LLC

Al Quoz Industrial Area 3, P.O.Box 74582, Dubai, United Arab Emirates

Tel: +971 4 347 2426 • Fax: +971 4 347 2363

E-mail: sami@bristol-fire.com • Website: www.bristol-fire.com

Certificate No: 1174c-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 506e-(cl-2) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificate No: 1330d-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006

Alarm Warning Devices

Certificated Products

B61-6301 Conventional Type A Sounder Strobe (B61-4101 base)
Notes:
1. Meets the requirements of EN 54-3 and approved at the following tones:
1) Tone 01, 2400Hz - 2900Hz @ 3 Hz
2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off
2. The strobe function is not included within the scope of this approval

BF-AB-0418 Conventional Fire Alarm Bell

AVI-6401 Addressable Sounder Strobe (AVI-6500)
Notes:

LPCB Ref. No.
1174c/01

506e/01
1330d/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

1. Approved to Type A Indoor use only.
2. Meets the requirements of EN 54-3:2001 at the following tones:
 - Tone 14, 2400 Hz - 2900 Hz @ 3Hz
 - Tone 16, 500Hz - 1200Hz, 3.5s on/0.25s off
 - Tone 17, 800Hz, 1s off/1s on
3. The strobe function is not approved to EN 54-23

LPCB Ref.
No.

Bases

B61-4101 Base
AVI-6500 Base

Ceasefire Industries Private Ltd

E6, Upsidc Industrial Area,, Selaqui, Dehradun, Uttarakhand 24001, India

Tel: +911204223473

E-mail: amit@ceasefire.in

Certificate No: 928w-(cl-5) to EN 54-3:2001 + A1: 2002 + A2: 2006

Certificate No: 928ah_(cl-5) to EN 54-3:2001+ A1: 2003 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005

Certificated Products

TI-002232

Addressable Type A Sounder Base

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:
 - Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms
 - Tone 2 Continuous Tone, 1000Hz, Steady
 - Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF
 - Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)
2. Cover plate (white) TI-002285

LPCB Ref.
No.
928w/05

TI-002233

Addressable Type A Sounder Beacon Base

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:
 - Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms
 - Tone 2 Continuous Tone, 1000Hz, Steady
 - Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF
 - Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)
2. The beacon function is not included within the scope of this approval
3. Cover plate (white) TI-002285

928w/06

TI-002272

Conventional Type A/B (Indoor/Outdoor) Wall Sounder (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:
 - Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
 - Tone 2 Continuous Tone, 970Hz
 - Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
 - Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)

928w/07

TI-002272 + TI-002260

Addressable Type A/B (Indoor/Outdoor) Wall Sounder with Short Circuit Isolator (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:
 - Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
 - Tone 2 Continuous Tone, 970Hz
 - Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
 - Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. Device is only addressable when used in conjunction with TI-002260

928ah/01

Certificate No: 928y-(cl-5) to EN 54-3:2001 + A1: 2003 + A2: 2006, EN 54-23:2010

Certificate No: 928z-(cl-5) to EN 54-3: 2001 + A1: 2003 + A2: 2006, EN 54-17: 2005 , EN 54-18: 2005 & EN 54-23: 2010

Certificated Products

TI-002273

Conventional Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device (Red Body)

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:
 - Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms

LPCB Ref.
No.
928y/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>TI-002273 + TI-002260</p> <p><i>Tone 2 Continuous Tone, 970Hz</i> <i>Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i> <i>Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)2. The wall mounted VAD meets the requirements of EN 54-23 for the following:</i> - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p> <p>Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body)</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: <i>Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms</i> <i>Tone 2 Continuous Tone, 970Hz</i> <i>Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms</i> <i>Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</i> 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with TI-002260</p>	<p>928z/01</p>

Certificate No: 928x-(cl-2) to EN 54-23: 2010

Certificated Products	LPCB Ref. No.
<p>TI-002271</p> <p>Conventional Type A Beacon (1 Flash Every 2 Seconds)</p> <p>Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-7.5 - Synchronization - Flash rate 0.5 Hz - White LED - Clear lens 2. Approved with TI-002231 Base</p>	<p>928x/02</p>

Bases:
 TI-002231 Base Adaptor

Computationics Limited (Trading as C-Tec)
 Challenge Way, Martland Park, Wigan, Lancashire WD5 0LD, United Kingdom
 Tel: +44 (0)1942 322744/42444 • Fax: +44 (0)1942 829867
 E-mail: sales@C-tec.co.uk • Website: www.c-tec.co.uk

Certificate No: 176e to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005
Certificate No: 176q to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products	LPCB Ref. No.
<p>BF430A/CX/SR</p> <p>Hi-Output Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery)</p> <p>Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off</p>	<p>176e/01</p>
<p>BF430A/CX/DR</p> <p>Hi-Output Addressable Type B (outdoor) Wall Sounder with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off</p>	<p>176e/02</p>
<p>BF431A/CX/W</p> <p>Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery)</p> <p>Notes:</p>	<p>176e/03</p>

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
CA450A/SW	1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked sounder base combination with detectors from the Apollo Discovery range Addressable CAST Protocol Type A Compact Sounder with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
CA450A/SR	Addressable CAST Protocol Type A Compact Sounder with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC	176e/07
CA431A/W	Addressable CAST Protocol Type A Ceiling Base Sounder with Short Circuit Isolator, White, IP21C (BF431QCP) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c	176e/08
CA430A/SR	Addressable CAST Protocol Type A High Output Wall Sounder with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/04
CA430A/DR	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/05
CA430A/DR/65	Addressable CAST Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Note: Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c	176e/06
BF430C/CC/SR	Conventional Type A Indoor Hi Op Wall Sounder (Red Enclosure), Shallow Base, IP21C	176q/02

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>Note:</p> <p>1) Approved to EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - 1 - CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 - CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 	
<p>BF430C/CC/DR</p> <p>Conventional Type B Outdoor Hi Op Wall Sounder (Red Enclosure), Deep Base, IP33C</p> <p>Note:</p> <p>1) Approved to EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - 1 - CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 - CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 	176q/03
<p>BF430C/CC/DR/65</p> <p>Conventional Type B Outdoor Hi Op Wall Sounder (Red Enclosure), Deep Base, IP55C</p> <p>Note:</p> <p>1) Approved to EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - 1 - CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 - CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 	176q/04
<p>BF431C/CC/W</p> <p>Conventional Type A Indoor Base Sounder (White Enclosure) IP21C</p> <p>Notes:</p> <p>1) Approved to EN 54-3 (High volume only) at the following tones:</p> <ul style="list-style-type: none"> - 1 - CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 - CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC <p>2) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either:</p> <ul style="list-style-type: none"> - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors 	176q/01
<p>HP430A/DR/65</p> <p>- C4408 Activ basic base, shall be used when detector is fitted. HP Addressable Protocol Type B High Output Wall Sounder with Short Circuit Isolator, Deep Base, Red, IP55 (BFIPPLATE/R and IP55 Deep Base)</p> <p>Note:</p> <p>Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V dc 	176e/06
<p>HP450A/SW</p> <p>HP Type A Compact Sounder with Short Circuit Isolator, Shallow Base, White Body, IP21C</p> <p>Note:</p> <p>Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40VDC 	176e/07
<p>HP431A/W</p> <p>HP Type A Base Sounder with Short Circuit Isolator, White, IP21C</p> <p>Note:</p> <p>1. Meets the requirements of EN 54-3:2001 for the following tones:</p> <ul style="list-style-type: none"> - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c 	176e/08

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ALARM WARNING DEVICES

Deep Base - IP33C
Shallow Base - IP21C
Deep Base - IP55
BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red
BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White
BF431QCP Quick Connect Plate
CC408 Activ Base
BF330CTLIDW White Cap
BF330CTLIDR Red Cap

Certificate No: 176f to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-23:2010

Certificate No: 176r to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23:2010

Certificated Products

LPCB Ref. No.

BF433A/CX/SR	Hi-Output Addressable Type A (indoor) Wall Sounder VAD with Short Circuit Isolator, Shallow Base (Red) (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC	176f/01
BF433A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery)Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off- Operating voltage range 17-28 VDC	176f/02
BF456A/CX/W	Addressable Type A (indoor) Ceiling Sounder VAD Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8 - Flash rate 0.5Hz - Synchronisation - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off - Operating voltage range 17-28 VDC 3. Can be used as either: - a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or - a stacked sounder/VAD base combination with detectors from the Apollo Discovery range	176f/03
CA451A/SW	Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W) Notes: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s	176f/07

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>CA451A/SR</p> <ul style="list-style-type: none"> - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC <p>Addressable CAST Protocol Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC 2. Meets the requirements of EN 54-3 for the following: <ul style="list-style-type: none"> - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - Operating voltage range 24-40 VDC 	176f/07
<p>CA432A/W</p> <p>Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3:2001 for the following tones: <ul style="list-style-type: none"> - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating O-R-3-2.5-18 - Synchronization - Flash rate 0.5Hz - White LED 	176f/08
<p>CA456A/W</p> <p>Addressable CAST Protocol Type A Ceiling Base Sounder VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3:2001 for the following tones: <ul style="list-style-type: none"> - Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec - Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec - Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off - German DIN Tone, 1200Hz-500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 440ms - Operating voltage range 24-40V d.c. 2. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating C-3-8.5 - Synchronization - Flash rate 0.5Hz - White LED 	176f/09
<p>CA433A/SR</p> <p>Addressable CAST Protocol Type A High Output Wall Sounder VAD with Short Circuit Isolator, Shallow Base, Red, IP21 (BFIPPLATE/R)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following tones: <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c. 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED 	176f/04
<p>CA433A/DR</p> <p>Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Deep Base, Red, IP33 (BFIPPLATE/R)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following tones: <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off 	176f/05

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>- German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED</p>	176f/06
<p>CA433A/DR/65 Addressable CAST Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, Red, IP55 (BFIPPLATE/R and IP55 Deep Base) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c 2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED</p>	176r/03
<p>BF433C/CC/SR Conventional Type A Indoor Hi Op Wall Sounder VAD (Red Enclosure), Shallow Base, IP21C Notes: 1) Approved to EN 54-3 at the following tones: - 1 - CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 - CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC</p>	176r/04
<p>BF433C/CC/DR Conventional Type B Outdoor Hi Op Wall Sounder VAD (Red Enclosure), Deep Base, IP33C Notes: 1) Approved to EN 54-3 at the following tones: - 1 - CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 - CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC</p>	176r/05
<p>BF433C/CC/DR/65 Conventional Type B Outdoor Hi Op Wall Sounder VAD (Red Enclosure), Deep Base, IP55C Notes: 1) Approved to EN 54-3 at the following tones: - 1 - CTEC Evacuation Tone (675Hz for 0.5s, 925Hz for 0.5s) - 3 - CTEC Fast Warble (920Hz for 0.25s, 975Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) 2) Meets the requirements of EN 54-23 for the following: - Category W-2.75-9 / W-4-4 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC</p>	176r/01
<p>BF432C/CC/W Conventional Type A Indoor O Class Base Sounder VAD, White LED (White Enclosure) IP21C Notes: 1) Approved to EN 54-3 (High volume only) at the following tones: - 1 - CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 - CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s)</p>	176r/01

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	<ul style="list-style-type: none"> - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC 	
	<p>2) Meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none"> - Category O-R-3-2.5-17 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC 	
	<p>3) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either:</p> <ul style="list-style-type: none"> - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors 	
BF456C/CC/W	<p>- C4408 Activ basic base, shall be used when detector is fitted. Conventional Type A Indoor C Class Base Sounder VAD, White LED (White Enclosure) IP21C</p> <p>Notes:</p> <p>1) Approved to EN 54-3 (High volume only) at the following tones:</p> <ul style="list-style-type: none"> - 1 - CTEC Evacuation Tone (610Hz for 0.5s, 810Hz for 0.5s) - 3 - CTEC Fast Warble (810Hz for 0.25s, 610Hz for 0.25s) - 5 - Dutch Slow Whoop (sweep) (500-1200Hz for 3.5s, 0.5s off) - 6 - DIN Tone (1200Hz-500Hz for 1s) - 15 - French Fire Tone (554Hz for 100ms / 440Hz for 380ms to 420ms) - Operating Voltage 18-30 VDC <p>2) Meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none"> - Category C-3-8.5 - Flash rate 0.5Hz synchronised - Operating voltage range 18-30 VDC <p>3) The device must be used with Quick Connect Plate (BF431/QCP) Can be used as either:</p> <ul style="list-style-type: none"> - A stand-alone device with locking white cap (BF330CTLIDW) or red cap (BF330CTLIDR), or, - A stacked sounder/VAD combination with detectors from C-TECs range of Activ conventional detectors 	176r/02
HP433A/DR/65	<p>- C4408 Activ basic base, shall be used when detector is fitted. HP Addressable Protocol Type B High Output Wall Sounder VAD with Short Circuit Isolator, IP55</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Evacuate, 675Hz for 0.5s, 925Hz for 0.5s - Fast Warble, 920Hz for 0.25s, 975Hz for 0.25s - Dutch Slow Whoop (sweep), 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms - US Temporal LF (ISO 8201), 3x(970Hz, 0.5s on, 0.5s off), 1s off - Operating voltage range 24-40V d.c <p>2. The Wall Mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none"> - Category rating W-2.75-9 or W-4-4 - Synchronization - Flash rate 0.5Hz - Red LED 	176f/06
HP451A/SW	<p>HP Type A Compact Sounder VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none"> - Category C-3-8, W-3-3.125 - Flash rate 0.5Hz - Synchronisation - White LED - Operating voltage range 27-40 VDC <p>2. Meets the requirements of EN 54-3 for the following:</p> <ul style="list-style-type: none"> - Evacuate, 535Hz for 0.5s, 800Hz for 0.5s - Fast Warble, 800Hz for 0.25s, 645Hz for 0.25s - Dutch Slow Whoop, 500Hz to 1200Hz for 3.5s on, 0.5s off - German DIN Tone, 1200Hz to 500Hz for 1s - French Fire Tone, 554Hz for 100ms/440Hz for 400ms 	176f/07

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ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
HP456A/W	<p>- Operating voltage range 24-40 VDC HP Ceiling Class Type A Base Sounder VAD with Short Circuit Isolator, White, IP21C</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-3:2001 for the following tones:<ul style="list-style-type: none">- Evacuate, 610 Hz for 0.5 sec, 810 Hz for 0.5 sec- Fast Warble, 810 Hz for 0.25 sec, 610 Hz for 0.25 sec- Dutch Slow Whoop (sweep), 500 Hz to 1200 Hz for 3.5 sec on, 0.5 sec off- German DIN Tone, 1200Hz-500Hz for 1s- French Fire Tone, 554Hz for 100ms/440Hz for 440msThe Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:<ul style="list-style-type: none">- Category rating C-3-8.5- Synchronization- Flash rate 0.5Hz- White LED	176f/09

Deep Base - IP33C
Shallow Base - IP21C
Deep Base - IP55
BFIPPLATE/R IP Protection Plate for Compact / Hi OP / Sounder VAD - Red
BFIPPLATE/W IP Protection Plate for Compact / Hi OP / Sounder VAD - White
BF431QCP Quick Connect Plate
CC408 Activ Base
BF330CTLIDW White Cap
BF330CTLIDR Red Cap

Certificate No: 176g to EN 54-17:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
BF460A/CX/W	<p>Addressable Type A (indoor) Ceiling VAD Base with Short Circuit Isolator (Apollo Discovery)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-23 for the following:<ul style="list-style-type: none">- Category C-3-8- Flash Rate 0.5Hz- Synchronisation- Operating voltage 21-28 VDCCan be used as either:<ul style="list-style-type: none">- a stand-alone device with locking white cap (BF330CTLIDW), or red cap (BF330CTLIDR), or- a stacked VAD base combination with detectors from the Apollo Discovery range	176g/01
CA458A/SW	<p>Addressable CAST Protocol Type A Compact VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C (BFIPPLATE/R, BFIPPLATE/W)</p> <p>Note:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-23 for the following:<ul style="list-style-type: none">- Category C-3-8, W-3-3.125- Flash Rate 0.5Hz- Synchronisation- White LED- Operating voltage 27-40 VDC	176g/02
CA458A/SR	<p>Addressable CAST Protocol Type A Compact VAD with Short Circuit Isolator, Shallow Base, Red Body, IP21C (BFIPPLATE/R, BFIPPLATE/W)</p> <p>Note:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-23 for the following:<ul style="list-style-type: none">- Category C-3-8, W-3-3.125- Flash Rate 0.5Hz- Synchronisation- White LED- Operating voltage 27-40 VDC	176g/02
CA459A/W	<p>Addressable CAST Protocol Type A Ceiling Base VAD with Short Circuit Isolator, White, IP21C, Open Class (BF431QCP)</p> <p>Note:</p> <ol style="list-style-type: none">The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:<ul style="list-style-type: none">- Category rating O-R-3-2.5-18- Synchronization- Flash rate 0.5Hz- White LED	176g/03
CA460A/W	<p>Addressable CAST Protocol Type A Ceiling Base VAD with Short Circuit Isolator, White, IP21C, Ceiling Class (BF431QCP)</p>	176g/04

Certificated Products

LPCB Ref. No.

	Note: 1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category rating C-3-8.5 - Synchronisation - Flash rate 0.5Hz - White LED	
HP458A/SW	HP Type A Compact VAD with Short Circuit Isolator, Shallow Base, White Body, IP21C Note: 1. Meets the requirements of EN 54-23 for the following: - Category C-3-8, W-3-3.125 - Flash Rate 0.5Hz - Synchronisation - White LED - Operating voltage 27-40 VDC	176g/02
Shallow Base	IP21C	
BFIPPLATE/R	IP Protection Plate for Compact / Hi OP / Sounder VAD - Red	
BFIPPLATE/W	IP Protection Plate for Compact / Hi OP / Sounder VAD - White	
BF431QCP	Quick Connect Plate	

Context Plus Ltd

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Certificate No: 717a-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 546a-(cl-6) to EN 54-3:2001 + A1:2002 + A2:2006
Certificate No: 176e-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005
Certificate No: 010ak-(cl-6) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products

LPCB Ref. No.

CP-500IMC	Conventional Sounder with LED Strobe (Red Head / Red Base) (SB-400IMC & DB-450IMC bases) Notes: 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13 3. Certification excludes the strobe function	717a/01
CP-400IMC	Conventional Sounder (Red) (SB-400IMC & DB-450IMC bases) Notes: 1. The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13	717a/05
CP-600IMC	Conventional Sounder with LED Strobe Common Operation (Red Head / Red Base) (SB-400IMC & DB-450IMC bases) Notes: 1. The above sounder is Type A when used with the shallow base & Type B when used with the deep base only 2. Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13 3. Certification excludes the strobe function	717a/10
CP550SB	Conventional Indoor Type A Sounder Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN 54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
CP550DB	Conventional Outdoor Type B Sounder Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN 54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec)	546a/01

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ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
CP850BSW	25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off) Conventional Indoor Type A Sounder Base Notes: 1. Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (800-1000Hz @ 0.5 Sec) 3 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 11 - 1 st Stage, Dutch Sweep Tone (970Hz Cont) 11 - 2 nd Stage, Dutch Sweep Tone (500-1200Hz for 3.5s on, 0.5s off) 25 - German DIN Tone (Sweep 1200-500Hz @ 1 Hz) 27 - French Tone AFNOR (554 Hz 100ms and 440Hz for 400ms) 3. Cover Plate (white) - Part no. 116-099 Cover Plate (ivory) - Part no. 116-119	546a/04
CON430A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery) Note: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off	176e/02
CON431A/CX/W	Addressable Type A (indoor) Ceiling Sounder Base with Short Circuit Isolator (Apollo Discovery) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Evacuate, 550Hz for 0.5s, 825Hz for 0.5s - Alternating, 925Hz for 0.25s, 626Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off 2. Can be used as :	176e/03
55000-005IMC	- A stacked sounder base combination with detectors from the Apollo Discovery range Intelligent Open-Area Sounder Visual Indicator Red with Red Lens (45681-518IML Enhanced Deep Isolating Base) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: Apollo standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	010ak/03

Bases

SB-400IMC Shallow base (red)

DB-450IMC Deep base (red)

Deep Base

45681-518IML Enhanced Deep Isolating Base (Red)

Certificate No: 176f-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-23:2010

Certificated Products		LPCB Ref. No.
CON433A/CX/DR	Hi-Output Addressable Type B (outdoor) Wall Sounder VAD with Short Circuit Isolator, Deep Base (Red) (Apollo Discovery)Notes: 1. Meets the requirements of EN 54-23 for the following: - Category W-2.4-8.2 - Flash rate 0.5Hz - Synchronization - Operating voltage range 21-28 VDC 2. Meets the requirements of EN 54-3 for the following: - Evacuate, 572Hz for 0.5s, 720Hz for 0.5s - Alternating, 962Hz for 0.25s, 572Hz for 0.25s - Dutch slow sweep, 500Hz to 1200Hz for 3.5s on, 0.5s off- Operating voltage range 17-28 VDC	176f/02

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Cranford Controls Limited

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E-mail: n.young@cranfordcontrols.com • Website: www.cranfordcontrols.com

Certificate No: 546a to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
VTG-32E-SB	Conventional indoor Type A sounder Notes: 1) The sounder is approved in red and white colours (-R and -W suffixes) 2) Certified to EN54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
VTG-32E-DB	Conventional outdoor Type B sounder Notes: 1) The sounder is approved in red and white colours (-R and -W suffixes) 2) Certified to EN54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
VPR-DT	Conventional outdoor Type B sounder (116-100 mounting base) Notes: 1) Certified to EN54-3: 2001 with the following selectable tones: 1 - Evacuate Tone (500-1200Hz Rising Sweep over 3.5 Sec 0.5 Sec off) 2 - Alert Tone (970Hz Continuous Tone) 2) Certified at Maximum Volume only.	546a/02
VSO-32E	Conventional indoor Type A sounder base Notes: 1) Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2) Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (Cranford sweep) (800-1000Hz @ 0.5 Sec) 3 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 11 - 1st Stage, Dutch Sweep Tone (970Hz Cont) 11 - 2nd Stage, Dutch Sweep Tone (500-1200Hz for 3.5s on, 0.5s off) 25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) 27 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms)	546a/04
VPR-SA4E	3) Cover plate (Part No. 116-099) must be used . Conventional Outdoor Type B Wall Sounder (116-100 Mounting Base) Notes: 1. The Sounder is approved in Red (Part No.: 505-047) and White (Part No.: 505-048) Colours (-R and -W suffixes) 2. Certified to EN 54-3: 2001 with the following selectable tones: Continuous Tone, 800Hz continuous Sweep Tone, 800Hz - 1000Hz swept every 500ms (2Hz) Pips Tone, 800Hz for 800ms, then off for 500ms Warble Tone, 800Hz for 800ms, then 1000Hz for 500ms	546a/06

Base:

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ALARM WARNING DEVICES

116-100 Viper Mounting Base

DEF

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Certificate No: 1451c-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 1451d-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ZEPHYR-DSAF	Conventional Type A Sounder (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2 - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz	1451c/01
ZEPHYR-SDSAF	2) Operating Voltage Range 16Vdc to 60Vdc Conventional Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc	1451c/02
ZEPHYRA-DSAF	3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder. Addressable Type A Sounder with Short Circuit Isolator (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz - Battery Management (This battery management is not part of the scope of EN 54-3)	1451d/01
ZEPHYRA-SDSAF	2) Operating Voltage Range 30Vdc to 41Vdc Addressable Type A Base Sounder with Short Circuit Isolator Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz - Battery Management (This battery management is not part of the scope of EN 54-3) 2) Operating Voltage Range 30Vdc to 41Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451d/02

Accessories:
S3000M Base
Cover Plate

Detect Fire LLC

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E-mail: marketing@detectfire.info • Website: <http://detectfire.info/>

Certificate No: 506e-(cl-9) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products

DF-700-AB DF-550-HS	Conventional Fire Alarm Bell Conventional Type B Electronic Sounder Beacon Note: 1. Meets the requirements of EN 54-3: 2001 at the following tones: 1 - Alternating Tones 800/970Hz at 2Hz 2 - Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	LPCB Ref. No. 506e/01 506e/03
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Detectomat Systems GmbH

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Tel: +49 41 02 21 14 60 • Fax: +49 4102 2114 670
E-mail: zulassung@detectomat.com

Certificate No: 1451a-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006
Certificate No: 1451b-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

AVS3000	Conventional Type A Sounder (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc	LPCB Ref. No. 1451a/01
AS3000	Conventional Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms Configuration 2: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 16Vdc to 60Vdc 3) a) A detector (LYNX & ORION range) can be fitted to this base. b) When a cover plate is fitted it is a stand-alone base sounder.	1451a/02
AVS3000A	Addressable Type A Sounder with Short Circuit Isolator (S3000M base) Notes: 1) Meets the requirements of EN 54-3 at the following tones: Configuration 1: - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz 2) Operating Voltage Range 30Vdc to 41Vdc	1451b/01
AS3000A	Addressable Type A Base Sounder with Short Circuit Isolator Notes:	1451b/02

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Certificated Products

- 1) Meets the requirements of EN 54-3 at the following tones:
Configuration 1:
 - NFS-32001, Alternating, 554Hz & 440Hz, 100ms-400ms
 - DIN 33404, Sweep, 1200Hz to 500Hz, 1Hz
 - GB tone 1, Sweep, 800Hz to 970Hz, 1Hz
- 2) Operating Voltage Range 30Vdc to 41Vdc
- 3) a) A detector (LYNX & ORION range) can be fitted to this base.
b) When a cover plate is fitted it is a stand-alone base sounder.

LPCB Ref.
No.

Accessories:
S3000M Base
Cover Plate

Eaton Electrical Systems Limited

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Tel: +44 (0)1302 303397 • Fax: +44 (0)1302 303397

Certificate No: 714j to EN 54-3: 2001 + A1: 2002 + A2: 2006 EN 54-17: 2005

Certificate No: 714s to EN 54-17:2005. EN 54-23:2010

Certificated Products

		LPCB Ref. No.
CASB383	Addressable Type A Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	714j/01
MASB860	Addressable Type A Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	714j/01
FXN539LPS	Addressable Type A Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	714j/01
CASB383WP	Addressable Type B Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	714j/02
MASB860WP	Addressable Type B Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval	714j/02
FXN539LPSWP	Addressable Type B Wall Sounder/Beacon with short circuit isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle	714j/02

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
CASBB384	714j/03
<p>- Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Sounder/Beacon Base with short circuit isolator Notes:</p>	
MASB870	714j/03
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Sounder/Beacon Base with short circuit isolator Notes:</p>	
FXN537	714j/03
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Sounder/Beacon Base with short circuit isolator Notes:</p>	
CAS380	714j/04
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Sounder Base with short circuit isolator Note:</p>	
MAS850	714j/04
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Sounder Base with short circuit isolator Note:</p>	
FXN538	714j/04
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Sounder Base with short circuit isolator Note:</p>	
CAS381	714j/05
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Wall Sounder with short circuit isolator Note:</p>	
MAS850LPS	714j/05
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Wall Sounder with short circuit isolator Note:</p>	
FXN538LPS	714j/05
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type A Wall Sounder with short circuit isolator Note:</p>	
CAS381WP	714j/06
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type B Wall Sounder with short circuit isolator Note:</p>	
<p>1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap 2. The beacon functionality is not included within the scope of this approval Addressable Type B Wall Sounder with short circuit isolator Note:</p>	

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
MAS850LPSWP - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap Addressable Type B Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	714j/06
FXN538LPSWP Addressable Type B Wall Sounder with short circuit isolator Note: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap	714j/06
CASB383-B Addressable Type A Wall Sounder/Beacon with Short Circuit Isolator Notes: 1) Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Bell Tone (This tone is not EN 54-3 approved) 2) The beacon functionality is not included within the scope of this approval	714j/07
CASB383WP-B Addressable Type A/B Wall Sounder/Beacon with Short Circuit Isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 984Hz - Pulsed 984 / 0Hz pulse 1Hz - Two Tone 644 / 984Hz @ 1 Hz cycle - Bell Tone (This tone is not EN 54-3 approved) 2. The beacon functionality is not included within the scope of this approval	714j/08
CASBB384-B Addressable Type A Sounder/Beacon Base with Short Circuit Isolator Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: - Continuous 910Hz - Pulsed 910 / 0Hz pulse 1Hz - Two Tone 610 / 910Hz @ 1 Hz cycle - Bell Tone (This tone is not EN 54-3 approved) 2. The beacon functionality is not included within the scope of this approval	714j/09
CAB482WS Addressable Type A Red Light Flash Wall VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.5 - Flash rate 0.5Hz or 1Hz- Synchronisation - Red LED - Clear Lens	714s/01
CAB482WD Addressable Type A/B Red Light Flash Wall VAD with Isolator (Red Body) (Shallow Base/Deep Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.48- Flash rate 0.5Hz or 1Hz- Synchronisation - Red LED - Clear Lens	714s/02
CAB492WS Addressable Type A White Light Flash Wall VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.5- Flash rate 0.5Hz or 1Hz- Synchronisation - White LED - Clear Lens	714s/03
CAB492WD Addressable Type A/B White Light Flash Wall VAD with Isolator (Red Body) (Shallow Base/Deep Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 + W-2.4-2.5- Flash rate 0.5Hz or 1Hz- Synchronisation - White LED - Clear Lens	714s/04
CAB482CS Addressable Type A Red Light Flash Ceiling VAD with Isolator (Red Body) (Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following: - Category C-3.0-7.5 + C-3.0-2.5 - Flash rate 0.5Hz or 1Hz- Synchronisation - Red LED - Clear Lens	714s/05
CAB492CS Addressable Type A White Light Flash Ceiling VAD with Isolator (Red Body)(Shallow Base) Notes: 1. Meets the requirements of EN 54-23 at the following:	714s/06

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ALARM WARNING DEVICES

Certificated Products

**LPCB Ref.
No.**

- Category C-3.0-7.5 + C-3.0-2.5- Flash rate 0.5Hz or 1Hz- Synchronisation
- White LED
- Clear Lens

Shallow Base (Type A)
Deep Base (Type B)

Certificate No: 714q to EN 54-23:2010, EN 54-3: 2001 + A1: 2002 + A2: 2006. EN 54-17:2005

Certificated Products

**LPCB Ref.
No.**

CASB393	<p>Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing)</p> <p>Notes:</p> <p>1) Meets the requirements of EN 54-23 at the following:</p> <ul style="list-style-type: none"> - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens <p>2) Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap 	714q/01
FXN559LPS	<p>Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing)</p> <p>Notes:</p> <p>1) Meets the requirements of EN 54-23 at the following:</p> <ul style="list-style-type: none"> - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens <p>2) Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap 	714q/01
MASB880	<p>Addressable Type A Wall Sounder Beacon with Short Circuit Isolator (Red Housing)</p> <p>Notes:</p> <p>1) Meets the requirements of EN 54-23 at the following:</p> <ul style="list-style-type: none"> - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens <p>2) Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap 	714q/01
CASB393WP	<p>Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing)</p> <p>Notes:</p> <p>1) Meets the requirements of EN 54-23 at the following:</p> <ul style="list-style-type: none"> - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens <p>2) Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap 	714q/02
FXN559LPSWP	<p>Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) (JSB)</p> <p>Notes:</p> <p>1) Meets the requirements of EN 54-23 at the following:</p> <ul style="list-style-type: none"> - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens <p>2) Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> - Continuous 984Hz 	714q/02

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
MASB880WP - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap Addressable Type B Wall Sounder Beacon with Short Circuit Isolator (Red Housing) (Menvier) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category rating Open Class - Synchronization - Flash rate 0.5Hz - White LED - Clear Lens 2) Meets the requirements of EN 54-3 at the following tones - Continuous 984Hz - Two Tone 644 / 984Hz @ 1Hz cycle - Slow whoop 500-1200Hz in 3.5s / 0.5s gap	714q/02
CASBB394 Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	714q/03
FXN557 Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) (JSB) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	714q/03
MASB890 Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) (Menvier) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization Flash rate 0.5Hz White LED Clear Lens 2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap 3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm 4) CASC cover for sounder base	714q/03
CASBB394-O Addressable Type A Base Sounder Beacon (Open Class VAD) with Short Circuit Isolator (White Housing) Notes: 1) Meets the requirements of EN 54-23 at the following: Category rating Open Class Synchronization	714q/04

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p style="margin-left: 40px;">Flash rate 0.5Hz White LED Clear Lens</p> <p>2) Meets the requirements of EN 54-3 at the following tones: Continuous 910Hz Two tone 610 / 910Hz at 1Hz cycle Slow whoop 500 1200Hz in 3.5 seconds / 0.5second gap</p> <p>3) If detector heads are to be mounted on the addressable base sounder beacons the approved detector heads shall comply with the following physical attributes: Maximum Outer diameter 101mm Maximum height 43mm</p> <p>4) CASC cover for sounder base</p> <p>CASB483 Addressable Type A Red Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing)</p> <p>Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 (High Power) + W-2.4-2.5 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens</p> <p>2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap</p>	714q/05
<p>CASB483WP Addressable Type A/B Red Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing)</p> <p>Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.5 (High Power) + W-2.4-2.5 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - Red LED - Clear Lens</p> <p>2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap</p>	714q/06
<p>CASB493 Addressable Type A White Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing)</p> <p>Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.27 (High Power) + W-2.4-2.18 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens</p> <p>2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap</p>	714q/07
<p>CASB493WP Addressable Type A/B White Flash Wall Sounder VAD with Short Circuit Isolator (Red Housing)</p> <p>Notes: 1) Meets the requirements of EN 54-23 at the following: - Category W-2.4-7.25 (High Power) + W-2.4-1.24 (Low Power) - Flash rate 0.5Hz or 1Hz - Synchronisation - White LED - Clear Lens</p> <p>2) Meets the requirements of EN 54-3 at the following tones: - Continuous 984Hz - Two tone 644/984Hz at 1Hz cycle. - Slow whoop 500-1200Hz in 3.5 seconds / 0.5 second gap</p>	714q/08

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ALARM WARNING DEVICES

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Certificate No: 1120b to EN54-23: 2010

Visual Warning Devices

Certificated Products

		LPCB Ref. No.
XB15 (White)	Conventional Visual Alarm Device Type B (white light) 1) The VAD does not contain a function for synchronicity between devices. 2) The VAD is rated as C-3-32, C-6-31, C-9-12 and W-8-13. 3) The VAD must only be used with the clear lens and is only approved for the 24V d.c. version, at 1Hz flash rate and must not be used with a lens guard. 4) When used as a wall mounted VAD the device must be installed in accordance with the guidance given in TM250.	1120b/01
XB15 (Red)	Conventional Visual Alarm Device Type B (red light) 1) The VAD does not contain a function for synchronicity between devices. 2) The VAD is rated as C-3-16, C-6-6 and W-3-5. 3) The VAD must only be used with the red lens and is only approved for the 24V d.c. version, at 1Hz flash rate and must not be used with a lens guard. 4) When used as a wall mounted VAD the device must be installed in accordance with the guidance given in TM250.	1120b/02

Certificate No: 1120a to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
DB3	Conventional Sounder Type B Notes: 1. Meets the requirements of EN54-3: 2001 for the following tones: Tone 3 - Sweeping 800 / 1000Hz at 1Hz Tone 7 - Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap Tone 8 - Sweep 1200-500Hz at 1Hz Tone 15 - 554Hz for 100ms / 440Hz for 400ms Tone 19 - Continuous at 660Hz Tone 20 - Alt 554 / 440Hz at 1Hz	1120a/01
DB3B 54W	Conventional Sounder Type B Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Tone 3 Sweeping 800/1000Hz at 1Hz - Tone 7 Slow whoop 500-1200Hz in 3.5 seconds / 0.5 secs gap - Tone 8 Sweep 1200-500Hz at 1Hz - Tone 15 554Hz for 100ms / 440Hz for 400ms - Tone 19 Continuous at 660Hz - Tone 20 Alt 554 / 440Hz at 1Hz	1120a/02
DB3B 54D	Conventional Sounder Type B (ATEX) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones: - Tone 3 Sweeping 800/1000Hz at 1Hz - Tone 7 Slow whoop 500-1200Hz in 3.5 seconds / 0.5 secs gap - Tone 8 Sweep 1200-500Hz at 1Hz - Tone 15 554Hz for 100ms / 440Hz for 400ms - Tone 19 Continuous at 660Hz - Tone 20 Alt 554 / 440Hz at 1Hz	1120a/02

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Certificate No: 331h-(cl-1) to EN 54-3:2001 + A1: 2992 + A2: 2006

Certificated Products		LPCB Ref. No.
MAGDUOSR	MAGDUO Conventional Type A Sounder (Red) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s.	331h/01
MAGDUOSW	MAGDUO Conventional Type A Sounder (White) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s.	331h/01
MAGDUOSSLP	MAGDUO Conventional Type A Sounder Strobe Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms. 2) The strobe functionality is not included within the scope of this approval.	331h/02
MAGDUOSS	MAGDUO Conventional Type A Sounder Strobe (domed) Note: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms 2) The strobe functionality is not included within the scope of this approval.	331h/03
MAGDUOSRIP55	MAGDUO Conventional Type B Sounder IP55 Rated Note: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms.	331h/04
MAGDUOSRSQ	MAGDUO Conventional Type A Wall Sounder (Red) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms	331h/05
MAGDUOSWSQ	MAGDUO Conventional Type A Wall Sounder (White) Notes: 1) Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms	331h/05

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Certificate No: 506e to EN 54-3: 2001

Certificated Products		LPCB Ref. No.
FX-0218	Conventional fire alarm bell	506e/01

PART 1: SECTION 7

ALARM WARNING DEVICES

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E-mail: jon@eurofyre.com

Certificate No: 330r-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 1374a-(cl-2) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Alarm Warning Devices

Certificated Products

		LPCB Ref. No.
16-140	ProFyre Xtratone Addressable Type A Indoor Sounder (Red) Notes: 1. Meets the requirements of EN54-3 for the following tones: 1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms) 2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat	330r/01
16-010	ProFyre Sandwich Type A Indoor Sounder Base (16-050, 16-051, 16-052, 16-053 detectors and 12-030 base) Notes: 1. Meets the requirements of EN54-3 for the following tones: 1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms) 2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat	330r/02
16-141	ProFyre Xtratone Addressable Type A Indoor Sounder (White) Notes: 1. Meets the requirements of EN54-3 for the following tones: 1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms) 2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat	330r/03
12-080	6 (150mm) Type A 24 Vdc Fire Alarm Bell with Aluminium Gong (Indoor)	1374a/01
12-081	8 (200mm) Type A 24 Vdc Fire Alarm Bell with Aluminium Gong (Indoor)	1374a/02

Bases

12-030	Shallow base
16-050	ProFyre Addressable optical smoke detector
16-051	ProFyre Addressable A1R heat detector
16-052	Profyre Addressable A2S heat detector
16-053	ProFyre Addressable optical and heat detector

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Certificate No: 546a-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificate No: 1213j to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificate No: 1213ac to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
EVTG-32E-SB	Conventional indoor Type A sounder Notes: 1) Approved in red and white colours (-R and -W suffixes) 2) Meets the requirements of EN 54-3 at the following tone settings: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
EVTG-32E-DB	Conventional outdoor Type B sounder Notes: 1) Approved in red and white colours (-R and -W suffixes) 2) Meets the requirements of EN 54-3 at the following tone settings: 1 - LF Sweep frequency (800-1000Hz in 0.5sec)	546a/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
	25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2nd Stage tone for all above (800Hz continuous tone) 11 - 2ndStage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	
EVS0-32E	Conventional indoor Type A sounder base Notes: 1) Approved in standard white and Eurotech white colours (-W and -EW suffixes). 2) Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (Eurotech sweep) (800-1000Hz @ 0.5 Sec) 3 - Alternative Warble (800-1000Hz @ 0.5 Sec) 11 - Dutch Sweep Tone (970Hz Cont) 25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) 27 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) 3) Cover plate (Part No. 116-099) must be used.	546a/04
200-103	Odyssey Type B Intelligent Open Area Sounder (Red) (200-307 enhanced deep isolating bases) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s	1213j/01
200-104	Odyssey Type B Intelligent Open Area Sounder Beacon (Red) (200-307 enhanced deep isolating bases) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s 2. The Beacon function is not approved to EN 54-23	1213j/02
100-2010V	EURV-ABS Intelligent Platform Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	1213j/03
100-5011V	EURV-ABS Intelligent Platform Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	1213j/04
100-3801V	EURVC-SB Conventional Type A/B (indoor/Outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	1213j/05
100-3801VW + 100-2050V	EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	1213ac/01
100-3801V + 100-2050V	2.Device is only addressable when used in conjunction with 100-2050V EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz	1213ac/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. Device is only addressable when used in conjunction with 100-2050V EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body)</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p>	1213j/05
<p>Bases: 200-307 Enhanced deep isolating base (Red) Ancillaries 100-2050V Addressable module with short circuit isolator</p>	

Audible Warning Devices

Certificate No: 1213ab to EN 54-3:2001 + A1:2002 + A2:2006 EN 54-23:2010

Certificate No: 1213ad to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005 & EN 54-23:2010

Visual & Audible Warning Devices

Certificated Products	LPCB Ref. No.
<p>100-3800V EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body)</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p>	1213ab/01
<p>100-3800V + 100-2050V EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body)</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p>	1213ad/01
<p>100-3800VW EURVC-SB Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body)</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p>	1213ab/01
<p>100-3800VW + 100-2050V EURV-MOD Intelligent Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body)</p> <p>Notes:</p>	1213ad/01

Certificated Products

LPCB Ref. No.

1. Meets the requirements of EN 54-3 at the following tone settings:
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 Continuous Tone, 970Hz
Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. The wall mounted VAD meets the requirements of EN 54-23 for the following:
- Category W-2.5-7
- Flash rate 0.5Hz
- Synchronization
3. Device is only addressable when used in conjunction with 100-2050V

Ancillaries

100-2050V Addressable module with short circuit isolator

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Certificate No: 331h to EN 54-3: 2000 + A1: 2002 + A2: 2006

Certificate No: 331j to EN 54-3: 2000 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificated Products

LPCB Ref. No.

302-000x	Twinflex Hatari Conventional Type A sounder Notes: 1. Key: <i>x = 1 Colour Red</i> <i>x = 2 Colour White.</i>	331h/01
302-0012	Twinflex Flashpoint Conventional Type A sounder/strobe Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms.	331h/02
302-0022	Twinflex Flashpoint Conventional Type A sounder/strobe (domed) Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms.	331h/03
302-0004	Twinflex Hipoint Conventional Type B sounder Note: 1. Meets the requirements of EN 54-3 at the following tones: - Dual Tone 970Hz 0.25s, 800Hz 0.25s Slow Whoop 500-1200Hz over 3s, 0.5s off Dual French 550Hz 0.1s, 440Hz 400ms.	331h/04
313-002x	Twinflex Soundpoint Conventional Type A sounder Notes: 1. Key: <i>x = 1 Colour Red</i> <i>x = 2 Colour White.</i>	331h/05
326-0001	Sita Analogue Addressable Type A sounder with low profile base and short circuit isolator. Note: 1. Meets the requirements of EN 54-3 at the following tones: - Continuous 970Hz Pulsed 970Hz 1s on, 1s off	331j/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p><i>Dual Tone 970Hz 0.25s, 800Hz 0.25s</i> <i>Sweep Up 800-970Hz over 1s</i> <i>Slow Whoop 500-1200Hz over 3s, 0.5s off</i> <i>Sweep Down 1200-500Hz over 1s</i> <i>Dual French 550Hz 0.1s, 440Hz 400ms.</i></p> <p>326-0003 Sita Analogue Addressable Type A sounder with deep base and short circuit isolator. 331j/02</p> <p>Note:</p> <p>1. Meets the requirements of EN 54-3 at the following tones: - <i>Continuous 970Hz</i> <i>Pulsed 970Hz 1s on, 1s off</i> <i>Dual Tone 970Hz 0.25s, 800Hz 0.25s</i> <i>Sweep Up 800-970Hz over 1s</i> <i>Slow Whoop 500-1200Hz over 3s, 0.5s off</i> <i>Sweep Down 1200-500Hz over 1s</i> <i>Dual French 550Hz 0.1s, 440Hz 400ms.</i></p>	
<p>326-0021-R Sita Analogue Addressable Type A sounder/strobe with low profile base and short circuit isolator. 331j/03</p> <p>Note:</p> <p>1. Meets the requirements of EN 54-3 at the following tones: - <i>Continuous 970Hz</i> <i>Pulsed 970Hz 1s on, 1s off</i> <i>Dual Tone 970Hz 0.25s, 800Hz 0.25s</i> <i>Sweep Up 800-970Hz over 1s</i> <i>Slow Whoop 500-1200Hz over 3s, 0.5s off</i> <i>Sweep Down 1200-500Hz over 1s</i> <i>Dual French 550Hz 0.1s, 440Hz 400ms.</i></p>	
<p>326-0023-R Sita Analogue Addressable Type A sounder/strobe with deep base and short circuit isolator. 331j/04</p> <p>Note:</p> <p>1. Meets the requirements of EN 54-3 at the following tones: - <i>Continuous 970Hz</i> <i>Pulsed 970Hz 1s on, 1s off</i> <i>Dual Tone 970Hz 0.25s, 800Hz 0.25s</i> <i>Sweep Up 800-970Hz over 1s</i> <i>Slow Whoop 500-1200Hz over 3s, 0.5s off</i> <i>Sweep Down 1200-500Hz over 1s</i> <i>Dual French 550Hz 0.1s, 440Hz 400ms.</i></p>	
<p>323-0001 Sita Hipoint Analogue Addressable Type B sounder with short circuit isolator. 331j/05</p> <p>Note:</p> <p>1. Meets the requirements of EN 54-3 at the following tones: - <i>Continuous 970Hz</i> <i>Pulsed 970Hz 1s on, 1s off</i> <i>Dual Tone 970Hz 0.25s, 800Hz 0.25s</i> <i>Sweep Up 800-970Hz over 1s</i> <i>Slow Whoop 500-1200Hz over 3s, 0.5s off</i> <i>Sweep Down 1200-500Hz over 1s</i> <i>Dual French 550Hz 0.1s, 440Hz 400ms.</i></p>	
<p>313-000x Sita Soundpoint Analogue Addressable Type A sounder with short circuit isolator. 331j/06</p> <p>Notes:</p> <p>1. Key: <i>x = 1 Colour Red</i> <i>x = 2 Colour White.</i></p> <p>2. Meets the requirements of EN 54-3 at the following tones: - <i>Continuous 970Hz</i> <i>Pulsed 970Hz 1s on, 1s off</i> <i>Dual Tone 970Hz 0.25s, 800Hz 0.25s</i> <i>Sweep Up 800-970Hz over 1s</i> <i>Slow Whoop 500-1200Hz over 3s, 0.5s off</i> <i>Sweep Down 1200-500Hz over 1s</i> <i>Dual French 550Hz 0.1s, 440Hz 400ms.</i></p>	

Finder Elektronik A.S.

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Tel: +90 242 259 04 20 • Fax: +90 242 259 28 88
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Certificate No: 546a-(cl-2) to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 1426a-(cl-3) to EN 54-3:2001 + A1: 2002 + A2: 2006 EN 54-23:2010

Audible Warning Devices Certificated Products

		LPCB Ref. No.
FF ES150-VTG-SB	Conventional indoor Type A sounder (SB base) Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
FF ES150-VTG-DB	Conventional outdoor Type B sounder (DB base) Notes: 1. The sounder is approved in red and white colours (-R and -W suffixes) 2. Certified to EN54-3: 2001 with the following selectable tones: 1 - LF Sweep frequency (800-1000Hz in 0.5sec) 25 - German DIN tone Sweep (1200-500Hz @ 1Hz) 27 - French tone AFNOR (554Hz for 100ms and 440Hz for 400ms) 2 nd Stage tone for all above (800Hz continuous tone) 11 - 2 nd Stage, Dutch sweep tone (500-1200Hz for 3.5s on, 0.5s off)	546a/01
FF SB100	Conventional Sounder Beacon (DZ-9091K Base) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/01

Bases:

SB : Shallow base (type A)
DB : Deep base (type B)

DZ-9091K

Finder Yangin Güvenlik Elektronik Sistemler A.Ş

Kepez Mh, 5071 Sk. No: 10, Kepez, Antalya 07090, Turkey
Tel: +90 242 221 40 07 • Fax: +90 242 259 28 88
E-mail: info@finder.com.tr • Website: www.finder.com.tr

Certificate No: 1450a-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 928z-(cl-6) to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005, EN 54-18: 2005 & EN 54-23:2010

Certificated Products

		LPCB Ref. No.
FF LSB550	Intelligent Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box) Notes: Meets the requirements of EN 54-3: 2001 for the following tones 1) One Default Tone 3.5s ~ 4.5s The Beacon function is not approved to EN 54-23	1450a/01

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ALARM WARNING DEVICES

Certificated Products

FF ESF100+FF LX200 Altair Addressable Type A/B (Indoor/Outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body)

LPCB Ref. No.
928z/01

Notes:

1. Meets the requirements of EN 54-3 at the following tone settings:
Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms
Tone 2 - Continuous Tone, 970Hz
Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms
Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)
2. The wall mounted VAD meets the requirements of EN 54-23 for the following:
- Category W-2.5-7
- Flash rate - 0.5Hz
- Synchronization
3. Device is only addressable when used in conjunction with FF LX200

Base with 86H50 Embedded Box

Ancillaries

FF LX200 Addressable module with Short Circuit Isolator

Fire Fighter CO Security and Safety Equipment Trading LLC

Al Qusais Industry Area 4, P O Box 84926, Dubai, United Arab Emirates

Tel: 00971-4-2554494

E-mail: mutasem@firefighterco1.ae

Certificate No: 1174c-(cl-6) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

FST-6737 Addressable Type A Indoor Digital Sounder Beacon (FST-6619 Base) (branded as FST)

LPCB Ref. No.
1174c/02

Notes:

1. Meets the requirements of EN 54-3 and approved at the following tones:
1) Tone 00, 2400Hz - 2900Hz @ 3Hz
2) Tone 01, 2400Hz - 2900Hz @ 9Hz
3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off
4) Tone 14, 1500Hz - 2700Hz @ 3Hz
2. The beacon function is not included within the scope of this approval

Bases

FST-6619 Mounting Base

Fireguard Global Ltd.

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom

Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039

E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 506e-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products

FG-0218 Conventional Fire Alarm Bell
FG-03127S Conventional Type B Electronic Sounder (FG-03127MB)

LPCB Ref. No.
506e/01
506e/02

Note:

- Meets the requirements of EN 54-3:2001 at the following tones:
- 1 - Alternating Tones 800/970Hz at 2Hz
 - 2 - Sweeping 800/970Hz at 7Hz

FG-03127BS Conventional Type B Electronic Sounder Beacon (FG-03127MB)

506e/03

Notes:

1. Meets the requirements of EN54-3: 2001 at the following tones:
1-Alternating Tones 800/970Hz at 2Hz

Certificated Products

LPCB Ref.
No.

- 2-Sweeping 800/970Hz at 7Hz
2. The beacon functionality is not included within the scope of approval.

Base:
FG-03127MB

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: info@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 928ah-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005
Certificate No: 928z-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-18:2005 & EN 54-23:2010
Certificate No: 928w-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006
Certificate No: 928y-(cl-4) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010
Certificate No: 546a-(cl-5) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Visual & Audible Warning Devices

Certificated Products

LPCB Ref.
No.

FSCWS + FSIMSB	<p>G2 Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p>	928ah/01
FSCWSB + FSIMSB	<p>2. Device is only addressable when used in conjunction with FSIMSB G2 Addressable Type A (indoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p>	928z/01
FSCWS	<p>3. Device is only addressable when used in conjunction with FSIMSB G2 Conventional Type A (indoor) Wall Sounder Note: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p>	928w/07
FSIPLS	<p>G2 Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)</p>	928w/05
FSIPLSB	<p>2. Cover plate (LID100-ALW or ALR) G2 Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 - Continuous Tone, 1000Hz, Steady Tone 4 - Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 - Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz)</p> <p>2. The beacon function is not included within the scope of this approval</p>	928w/06

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ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
FSCWSB	<p>3. Cover plate (LID100-AL/W or AL/R) G2 Conventional Type A (indoor) Wall Sounder and Visual Alarm Device</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p>	928y/01
FSIPS	<p>G2 Conventional Slave 32 Tone Platform Sounder Base</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: -LF Sweep (Cranford sweep) (800-1000Hz @ 0.5s) -Warble Tone BS (800-1000Hz @ 0.5s) -Slow Woop (Dutch) Sweep Tone (500-1200Hz for 3.5s on, 0.5s off) -German DIN Tone (1200-500Hz @ 1Hz) -French Tone AFNOR (554Hz for 100ms and 440Hz for 400ms)</p>	546a/04

Detectors:

FSROD2	Wireless Intelligent Optical Smoke Detector
FSRMS2	Wireless Intelligent Multi-Criteria Detector
FSRHD2	Wireless Intelligent Heat Detector

Ancillaries

FSIMSB	Addressable module with short circuit isolator
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FIREX Protection System Technology Ltd

28-38 Desborough St, High Wycombe, Buckinghamshire, United Kingdom

Tel: 00971 653 40300 • Fax: 00971 653 40090

E-mail: QC@firexuae.com • Website: www.firexuae.com

Certificate No: 548e-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
FX9403	<p>Conventional sounder strobe (Shallow Base and FX94DB Base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz</p> <p>3. The strobe function is not in the scope of this approval.</p>	548e/01
FX9403I	<p>Intelligent sounder strobe (Shallow Base and FX94DB Base)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off</p> <p>2. Approved in both normal and power saving mode 3. The visual alarm function is not in the scope of this approval 4. Approved with single address and dual address (pre-alarm and main alarm).</p>	548e/02
FX9406I	<p>Analogue Addressable Indoor Sounder Beacon Base (FX9103I & FX9102I detectors and DZ-03 Base)</p> <p>Notes:1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s on / 0.25s off. The beacon function is not in the scope of this approval.3. Approved with FX9103I heat detector and FX9102I smoke detector</p>	548e/03
FX9404	<p>Conventional Type A Sounder (Shallow base, FX94DB Deep Base)</p> <p>Note:1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz - 2900Hz @ 3Hz</p>	548e/04

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ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
FX9404I	Intelligent Type A Sounder (Shallow base, FX94DB Deep base) <i>Note:1. Meets the requirements of EN 54-3: 2001 at the following tones:</i> Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s / 0.25s off Pre-Alarm 800Hz 1s off / 1s on	548e/05
FXI9405E	Analogue Addressable Type A Sounder Base (FX-01 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off	548e/06
FXI9406E	Analogue Addressable Type A Flashing Sounder Beacon Base (FX-01 Base) <i>Notes:</i> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off 2. Approved with FXI9103E heat detector and FXI9102E smoke detector 3. The visual alarm function is not in the scope of this approval	548e/07

Bases:

Shallow Base
FX94DB Deep Base
DZ-03 Standard Base
FX-01 Standard Base

Frontier Safety Ltd UK

85 Great Portland Street, London, England W1W 7, United Kingdom

Tel: 00447708000050

E-mail: mikefrontiersafety@gmail.com • Website: www.frontierpumps.com

Certificate No: 1426a-(cl-6) to EN 54-3:2001 + A1; 2002 + A2: 2006, EN 54-23:2010

Certificated Products		LPCB Ref. No.
FRN 91C	Conventional Sounder Beacon (DZ-9091K Base) <i>Notes:</i> 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/01
FRN 91	Addressable Sounder Beacon (DZ-9091 Base) <i>Notes:</i> 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/02

Base

DZ-9091K
DZ-9091

Certificate No: 1426h-(cl-2) to EN 54-3: 2001 + A1: 2002 + A2; 2006

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ALARM WARNING DEVICES

Certificated Products

FRN 92 Red Loop Sounder with Visual Indicator (DZ-9091K Base)
Notes:
Meets the requirements of EN 54-3 at the following tone:
Sweep tone 667Hz-2kHz @0.21Hz

LPCB Ref.
No.
1426h/01

Certificate No: 1426j-(cl-2) to EN 54-3: 2014 + A1: 2019

Certificated Products

FRN 97 Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket)
Notes:
Meets the requirements of EN 54-3: 2014 at the following tones
Sweep Tone 667Hz - 2KHz@0.21Hz

LPCB Ref.
No.
1426j/01

Accessories

Standard Mounting Bracket

Gent By Honeywell (Novar Systems Ltd)

140 Waterside Road, Hamilton Industrial Park, Leicester LE5 1TN, United Kingdom

Tel: +44 (0)116 246 2000 • Fax: +44 (0)116 246 2300

E-mail: gent_enquiry@gent.co.uk • Website: www.gent.co.uk

Certificate No: 042bj to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005

Certificate No: 042bt to EN54-17:2005, EN54-23:2010

Certificate No: 042bs to EN 54-3:2001+A1:2002 + A2:2006

Certificated Products

S3EP-VAD-HPW-R S-Cubed Type A White High Performance VAD Red Body with Short Circuit Isolator (Back Box)

Notes:

- Meets the requirements of EN 54-23 at the following power settings:
 - Low white output
 - Medium white output
 - High white output
- The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:
 - High Performance setting - (Category W: W-5-12.5)
 - Medium Performance setting - (Category W: W-4.5-11.3)
 - Low Performance setting - (Category W: W-3-8.5)
 - Synchronization
 - Flash rate 2 seconds (0.5Hz)

LPCB Ref.
No.
042bt/03

S3EP-VAD-HPR-R S-Cubed Type A Red High Performance VAD Red Body with Short Circuit Isolator (Back Box)

Notes:

- Meets the requirements of EN 54-23 at the following power settings:
 - Low red output
 - Medium red output
 - High red output
- The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:
 - High Performance setting - (Category W: W-6.7-14)
 - Medium Performance setting - (Category W: W-6.5-12.5)
 - Low Performance setting - (Category W: W-5-9.5)
 - Synchronization
 - Flash rate 2 seconds (0.5Hz)

042bt/04

S3EP-V-VAD-HPW-R S-Cubed Type A White High Performance VAD Red Body Voice Sounder with Short

042bs/07

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

S3EP-V-VAD-HPR-R	<p>Circuit Isolator (Back Box)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: <ul style="list-style-type: none"> - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bs/10
S3EP-S-R	<p>S-Cubed Type A Red High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (Back Box)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: <ul style="list-style-type: none"> - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bj/25
S3-S-VAD-HPR-R	<p>S-Cubed Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: <ul style="list-style-type: none"> - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bs/01
S3-S-VAD-HPR-W	<p>S-Cubed Type A Red High Performance VAD White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: <ul style="list-style-type: none"> - Low red output - Medium red output - High red output 	042bs/02

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
S3-S-VAD-HPW-R	<p>3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:</p> <ul style="list-style-type: none">- High Performance setting - (Category W: W-6.7-14)- Medium Performance setting - (Category W: W-6.5-12.5)- Low Performance setting - (Category W: W-5-9.5)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>S-Cubed Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ol style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz2. Alternating tone 730/970Hz @ 2Hz3. Continuous tone 970Hz2. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">- Low white output- Medium white output- High white output	042bs/03
S3-V-VAD-HPW-R	<p>3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:</p> <ul style="list-style-type: none">- High Performance setting - (Category W: W-5-12.5)- Medium Performance setting - (Category W: W-4.5-11.3)- Low Performance setting - (Category W: W-3-8.5)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>S-Cubed Type A White High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings:<ol style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz (Speech Message 3)2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5)3. Continuous tone 970Hz2. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">- Low white output- Medium white output- High white output	042bs/04
S3-V-VAD-HPR-R	<p>3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:</p> <ul style="list-style-type: none">- High Performance setting - (Category W: W-5-12.5)- Medium Performance setting - (Category W: W-4.5-11.3)- Low Performance setting - (Category W: W-3-8.5)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>S-Cubed Type A Red High Performance VAD Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings:<ol style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz (Speech Message 3)2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5)3. Continuous tone 970Hz2. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">- Low red output- Medium red output- High red output	042bs/05
S3-S-VAD-HPW-W	<p>3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:</p> <ul style="list-style-type: none">- High Performance setting - (Category W: W-6.7-14)- Medium Performance setting - (Category W: W-6.5-12.5)- Low Performance setting - (Category W: W-5-9.5)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>S-Cubed Type A White High Performance VAD White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ol style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz2. Alternating tone 730/970Hz @ 2Hz3. Continuous tone 970Hz2. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">- Low white output	042bs/06

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<ul style="list-style-type: none"> - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	
<p>S3-S-VAD-LPR-R</p> <p>S-Cubed Type A Red Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bs/11
<p>S3-S-VAD-LPW-R</p> <p>S-Cubed Type A White Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bs/12
<p>S3-S-R</p> <p>S-Cubed Type A Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Note:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	042bj/21
<p>S3-V-R</p> <p>S-Cubed Type A Red Body Voice Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Note:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 	042bj/22
<p>S3-S-W</p> <p>S-Cubed Type A White Body Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases)</p> <p>Note:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 	042bj/23
<p>S3-V-W</p> <p>S-Cubed Type A White Body Voice Sounder with Short Circuit Isolator (S3-DB-W and S3-SB-W Bases)</p> <p>Note:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone and speech settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz (Speech Message 3) 2. Alternating tone 730/970Hz @ 2Hz (Speech Message 5) 3. Continuous tone 970Hz 	042bj/24
<p>S3-VAD-HPR-R</p> <p>S-Cubed Type A Red High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ul style="list-style-type: none"> 1. Meets the requirements of EN 54-23 at the following power settings: <ul style="list-style-type: none"> • Low red output • Medium red output 	042bt/01

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Certificated Products		LPCB Ref. No.
S3-VAD-HPW-R	<ul style="list-style-type: none">• High red output <p>2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:</p> <ul style="list-style-type: none">- High Performance setting - (Category W: W-6.7-14)- Medium Performance setting - (Category W: W-6.5-12.5)- Low Performance setting - (Category W: W-5-9.5)- Synchronization- Flash rate 2 seconds (0.5Hz) <p>S-Cubed Type A White High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">• Low white output• Medium white output• High white output2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:<ul style="list-style-type: none">- High Performance setting - (Category W: W-5-12.5)- Medium Performance setting - (Category W: W-4.5-11.3)- Low Performance setting - (Category W: W-3-8.5)- Synchronization- Flash rate 2 seconds (0.5Hz)	042bt/02

Bases:

Shallow Base

Deep Base

Black Box

Note - All products may be used with either base

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Certificate No: 548e to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products		LPCB Ref. No.
C-9403	Conventional sounder strobe (Shallow Base and C-94DB Base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz2. The strobe function is not in the scope of this approval.	548e/01
I-9403	Intelligent sounder strobe (Shallow Base and C-94DB Base) Notes: <ol style="list-style-type: none">1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off2. Approved in both normal and power saving mode3. The visual alarm function is not in the scope of this approval4. Approved with single address and dual address (pre-alarm and main alarm).	548e/02
I-9406	Analogue Addressable Indoor sounder Beacon Base (I-9102, I-9103 detectors and DZ-03 base) Notes:1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s on / 0.25s off 2. The beacon functionality is not approved to EN54-23 3. Approved with P-9907 cover plate 4. Approved with I-9103 heat detector and I-9102 smoke detector	548e/03
C-9404	Conventional Type A Sounder (Shallow base, C-94DB Deep Base) Note: <ol style="list-style-type: none">1. Meets the requirements of EN 54-3: 2001 at the following tones:	548e/04

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>I-9404</p> <p><i>Tone 01 2800Hz 0.34s off/0.4s on</i> <i>Tone 02 2400Hz-2900Hz @ 3Hz</i> Intelligent Type A Sounder (Shallow base, C-94DB Deep base)</p> <p><i>Note:</i> 1. <i>Meets the requirements of EN 54-3: 2001 at the following tones:</i> <i>Tone 14 2400Hz-2900Hz @ 3Hz</i> <i>Tone 16 500Hz-1200Hz, 3.75s/0.25s off</i></p>	548e/05
<p>DI-9405</p> <p><i>Pre-Alarm 800Hz 1s off / 1s on</i> Analogue Addressable Type A Sounder Base (DB-01 base)</p> <p><i>Notes:</i> 1. <i>Meets the requirements of EN 54-3: 2001 at the following tones:</i> <i>Tone 14 2400Hz-2900Hz @ 3Hz</i> <i>Tone 16 500Hz-1200Hz, 3.75s on/0.25s off</i></p>	548e/06
<p>DI-9406</p> <p>Analogue Addressable Type A Flashing Sounder Beacon Base (DB-01 base)</p> <p><i>Notes:</i> 1. <i>Meets the requirements of EN 54-3: 2001 at the following tones:</i> <i>Tone 14 2400Hz-2900Hz @ 3Hz</i> <i>Tone 16 500Hz-1200Hz, 3.75s on/0.25s off</i> 2. <i>Approved with DI-9103 heat detector and DI-9102 smoke detector</i> 3. <i>The visual alarm function is not in the scope of this approval</i></p>	548e/07

Bases

Shallow Base
 C-94DB Deep base
 DZ-03 Standard base

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Certificate No: 810g to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products	LPCB Ref. No.
<p>55000-001HSL</p> <p>XP95 Type B intelligent open area sounder (Red) (45681-518HSL enhanced deep isolating base)</p> <p><i>Note:</i> 1. <i>Meets the requirements of EN 54-3:2001 at the following tones:</i> <i>Apollo standard-840Hz,0.5s/558Hz,0.5s</i> <i>Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off</i> <i>German DIN-1200-500Hz over 1s</i></p>	810g/01
<p>55000-005HSL</p> <p>Intelligent Open-Area Sounder Visual Indicator Red (45681-518HSL enhanced deep isolating base)</p> <p><i>Notes:</i> 1. <i>Meets the requirements of EN 54-3:2001 at the following tones:</i> <i>Apollo standard-840Hz,0.5s/558Hz,0.5s</i> <i>Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off</i> <i>German DIN-1200-500Hz over 1s</i> 2. <i>The Beacon function is not approved to EN 54-23</i></p>	810g/02

Bases:

45681-518HSL

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ALARM WARNING DEVICES

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Certificate No: 164h to EN 54 3:2001 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
YBO-BS(HFP)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED)) Note: 1) Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones	164h/01
YBO-BS(WHT)	Intelligent Analogue Addressable Type A Base Sounder - White Version (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED)) Note: 1. Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones.	164h/01
CHQ-WS2(HFP)	Intelligent Analogue Addressable Type A Wall Sounder (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED)) Note: 1) Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones	164h/02
CHQ-WS2(WHT)	Intelligent Analogue Addressable Type A Wall Sounder - White Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED)) Note: 1. Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones.	164h/02
CHQ-WS2/W	Intelligent Analogue Addressable Type B Wall Sounder- Weatherproof Version (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED)) Notes: 1) Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones 2) Includes a WS2-WPK Weatherproofing Kit	164h/02
YBO-BS	Intelligent Analogue Addressable Type A Base Sounder (YBN-R/3, YBN-R/3(WHT), YBO-R/SCI(RED)) Note: 1) Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones	164h/01
CHQ-WS2	Intelligent Analogue Addressable Type A Wall Sounder (YBN-R/3(WHT)-SCI, YBO-R/3(RED), YBO-R/3(WHT), YBO-R/SCI(RED)) Note: 1. Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones.	164h/02

Bases:

YBN-R/3 Standard Base

YBN-R/3(WHT) Standard Base

YBN-R/3(WHT)-SCI Short Circuit Isolator Base

YBO-R/SCI(RED) Short Circuit Isolator Base

YBO-R/3(RED) Standard Base

YBO-R/3(WHT) Standard Base

Accessories:

WS2-WPK Weatherproofing Kit

Approved Tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms

2 - 925 Hz Continuous

3 - 628 Hz Continuous

4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 - 925 Hz : 150 ms / Off : 600 ms

7 - 670 Hz : 250 ms / 845 Hz : 370 ms

8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms

9 - 1200 Hz : 500 ms / 500 Hz : 500 ms

10 - 970 Hz : 500 ms / Off : 500 ms

11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)

- 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
- 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
- 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
- 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
- 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
- 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 - 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 - 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off: 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
- 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
- 51 - Whoop 500-1200 3500 ms / Off 500 ms

Certificate No: 164s to EN 54-23: 2010

Certificate No: 164t to EN 54-3:2001 + A1:2002 + A2:2006 and EN 54-23:2010

Certificated Products

CHQ-CB(RED)/WL-15

Addressable Ceiling VAD (White LED)
(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases)

Notes:

1 . *The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36*

- LOL 0- Flash rate 0.5Hz

- Synchronization

2 . *The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4*

- LOL 1- Flash rate 0.5Hz

- Synchronization

3. *The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4*

- LOL 2- Flash rate 0.5Hz

- Synchronization

4. *The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5*

- LOL 0- Flash rate 1Hz

- Synchronization

5. *The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8*

- LOL 1- Flash rate 1Hz

- Synchronization

6. *The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following*

**LPCB Ref.
No.**

164s/01

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ALARM WARNING DEVICES

Certificated Products

LPCB Ref. No.

CHQ-CB(WHT)/WL-15	<p>categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27</p> <ul style="list-style-type: none">- LOL 2- Flash rate 1Hz- Synchronization <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p> <p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36- LOL 0- Flash rate 0.5Hz- Synchronization2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4- LOL 1- Flash rate 0.5Hz- Synchronization3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4- LOL 2- Flash rate 0.5Hz- Synchronization4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5- LOL 0- Flash rate 1Hz- Synchronization5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8- LOL 1- Flash rate 1Hz- Synchronization6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27- LOL 2- Flash rate 1Hz- Synchronization7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/02
CHQ-CB(RED)/WL	<p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76- LOL 0- Flash rate 0.5Hz- Synchronization2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9- LOL 1- Flash rate 0.5Hz- Synchronization3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42- LOL 2- Flash rate 0.5Hz- Synchronization4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2- LOL 0- Flash rate 1Hz- Synchronization5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1- LOL 1- Flash rate 1Hz- Synchronization6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6- LOL 2- Flash rate 1Hz- Synchronization7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/03
CHQ-CB(WHT)/WL	<p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76- LOL 0- Flash rate 0.5Hz- Synchronization2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following	164s/04

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<p>categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9 - LOL 1- Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42 - LOL 2- Flash rate 0.5Hz - Synchronization 4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2 - LOL 0- Flash rate 1Hz - Synchronization 5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1 - LOL 1- Flash rate 1Hz - Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6 - LOL 2- Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	<p>Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-SB2(RL&WL) & YBO-BSB Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3 - LOL 0- Flash rate 0.5Hz - Synchronization 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9 - LOL 1- Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5 - LOL 2- Flash rate 0.5Hz - Synchronization 4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8 - LOL 0- Flash rate 1Hz - Synchronization 5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3 - LOL 1- Flash rate 1Hz - Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6 - LOL 2- Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	<p>164s/05</p>
<p>CHQ-CB(WHT)/RL</p>	<p>Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3 - LOL 0- Flash rate 0.5Hz - Synchronization 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9 - LOL 1- Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5 - LOL 2- Flash rate 0.5Hz - Synchronization 4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8 - LOL 0- Flash rate 1Hz - Synchronization 5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3 - LOL 1- Flash rate 1Hz</p>	<p>164s/06</p>

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CHQ-CB/WL-15	<p>- Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6</p> <p>- LOL 2- Flash rate 1Hz</p> <p>- Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p> <p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36</p> <p>- LOL 0- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4</p> <p>- LOL 1- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4</p> <p>- LOL 2- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5</p> <p>- LOL 0- Flash rate 1Hz</p> <p>- Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8</p> <p>- LOL 1- Flash rate 1Hz</p> <p>- Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27</p> <p>- LOL 2- Flash rate 1Hz</p> <p>- Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	164s/07
CHQ-CB/WL	<p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76</p> <p>- LOL 0- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9</p> <p>- LOL 1- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42</p> <p>- LOL 2- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2</p> <p>- LOL 0- Flash rate 1Hz</p> <p>- Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1</p> <p>- LOL 1- Flash rate 1Hz</p> <p>- Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6</p> <p>- LOL 2- Flash rate 1Hz</p> <p>- Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	164s/08
CHQ-CB/RL	<p>Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3</p> <p>- LOL 0- Flash rate 0.5Hz</p> <p>- Synchronization</p>	164s/09

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CHQ-CB(RED)/WL-15-HFP	<p>2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9 - LOL 1- Flash rate 0.5Hz - Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5 - LOL 2- Flash rate 0.5Hz - Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8 - LOL 0- Flash rate 1Hz - Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3 - LOL 1- Flash rate 1Hz - Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6 - LOL 2- Flash rate 1Hz - Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	164s/01
CHQ-CB(WHT)/WL-15-HFP	<p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36 - LOL 0- Flash rate 0.5Hz - Synchronization</p> <p>2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4 - LOL 1- Flash rate 0.5Hz - Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4 - LOL 2- Flash rate 0.5Hz - Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5 - LOL 0- Flash rate 1Hz - Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8 - LOL 1- Flash rate 1Hz - Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27 - LOL 2- Flash rate 1Hz - Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	164s/02
	<p>Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.2-7.5, O-2.2-5, O-2.54-1.36 - LOL 0- Flash rate 0.5Hz - Synchronization</p> <p>2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-11.4, O-3.6-11.17, O-3.88-4 - LOL 1- Flash rate 0.5Hz - Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-15.1, O-4.7-15, O-4.89-9.68, O-5-5.4 - LOL 2- Flash rate 0.5Hz - Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-1.54-5.3, O-1.7-5 - LOL 0- Flash rate 1Hz - Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.6-8</p>	

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<p>- LOL 1- Flash rate 1Hz - Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.6-11.3, O-3.7-4.27 - LOL 2- Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	
CHQ-CB(RED)/WL-HFP Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-6.5, O-1.18-7.1, O-3.26-3.76 - LOL 0- Flash rate 0.5Hz - Synchronization 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9 - LOL 1- Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42 - LOL 2- Flash rate 0.5Hz - Synchronization 4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2 - LOL 0- Flash rate 1Hz - Synchronization 5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1 - LOL 1- Flash rate 1Hz - Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6 - LOL 2- Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/03
CHQ-CB(WHT)/WL-HFP Addressable Ceiling VAD (White LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3 -6.5, O-1.18-7.1, O-3.26-3.76 - LOL 0- Flash rate 0.5Hz - Synchronization 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.9, O-3.4-7.5, O-3.72-6.9 - LOL 1- Flash rate 0.5Hz - Synchronization 3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-4.3-10, O-4.6-5.42 - LOL 2- Flash rate 0.5Hz - Synchronization 4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.2-5.2 - LOL 0- Flash rate 1Hz - Synchronization 5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-5.9, O-2.75-5.1 - LOL 1- Flash rate 1Hz - Synchronization 6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-7.5, O-3.2-7.5, O-3.5-6 - LOL 2- Flash rate 1Hz - Synchronization 7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit	164s/04
CHQ-CB(RED)/RL-HFP Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3 - LOL 0- Flash rate 0.5Hz	164s/05

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CHQ-CB(WHT)/RL-HFP	<p>- Synchronization</p> <p>2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9</p> <p>- LOL 1- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5</p> <p>- LOL 2- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8</p> <p>- LOL 0- Flash rate 1Hz</p> <p>- Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3</p> <p>- LOL 1- Flash rate 1Hz</p> <p>- Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6</p> <p>- LOL 2- Flash rate 1Hz</p> <p>- Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p> <p>Addressable Ceiling VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-1.5, O-2.64-6.85, O-2.79-3.3</p> <p>- LOL 0- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>2 . The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-8.6, O-3.5-6.5, O-3.89-1.9</p> <p>- LOL 1- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>3. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-10, O-3.91-10, O-4.12-7.8, O-4.3-4.5</p> <p>- LOL 2- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>4. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following category:- Light Coverage Distance O-2.05-3.8</p> <p>- LOL 0- Flash rate 1Hz</p> <p>- Synchronization</p> <p>5. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance O-2.4-6.4, O-2.5-4.99, O-2.7-3</p> <p>- LOL 1- Flash rate 1Hz</p> <p>- Synchronization</p> <p>6. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:- Light Coverage Distance C-3-5.9, O-2.97-7.6, O-3.26-3.6</p> <p>- LOL 2- Flash rate 1Hz</p> <p>- Synchronization</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit</p>	164s/06
CHQ-WSB2/WL	<p>Addressable Type A/B Wall Sounder (White LED) Beacon (YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT) bases)</p> <p>Notes:</p> <p>1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <p>- Category 0</p> <p>- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.</p> <p>3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit</p> <p>Approved tones:</p> <p style="margin-left: 20px;">1 925 Hz : 250 ms / 628 Hz : 250 ms</p> <p style="margin-left: 20px;">2 925 Hz Continuous</p> <p style="margin-left: 20px;">3 628 Hz Continuous</p> <p style="margin-left: 20px;">4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms</p> <p style="margin-left: 20px;">5 (Swedish) 660 Hz : 150 ms / Off : 150 ms</p> <p style="margin-left: 20px;">6 925 Hz : 150 ms / Off : 600 ms</p> <p style="margin-left: 20px;">7 670 Hz : 250 ms / 845 Hz : 370 ms</p> <p style="margin-left: 20px;">8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms</p> <p style="margin-left: 20px;">9 1200 Hz : 500 ms / 500 Hz : 500 ms</p> <p style="margin-left: 20px;">10 970 Hz : 500 ms / Off : 500 ms</p>	164t/01

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- 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)
- 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)
- 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)
- 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)
- 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)
- 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)
- 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off : 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
- 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
- 51 - Whoop 500-1200 3500 ms / Off 500 ms

CHQ-WSB2/RL

Addressable Type A/B Wall Sounder (Red LED) Beacon
YBO-R/SCI(RED) and YBN-R/3(WHT) bases)

164t/02

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization
2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.
3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit

Approved tones: 1 925 Hz : 250 ms / 628 Hz : 250 ms

- 2 925 Hz Continuous
- 3 628 Hz Continuous
- 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 925 Hz : 150 ms / Off : 600 ms
- 7 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms
- 9 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 970 Hz : 500 ms / Off : 500 ms
- 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)
- 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)
- 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)
- 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)
- 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)
- 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)
- 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

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ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off : 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms

CHQ-WSB2(WHT)/WL

Addressable Type A/B Wall Sounder (White LED) Beacon
and YBN-R/3(WHT)-SCI bases)

164t/03

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category 0

- Flash rate 0.5Hz

- Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.

3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit

Approved tones: 1 925 Hz : 250 ms / 628 Hz : 250 ms

2 925 Hz Continuous

3 628 Hz Continuous

4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 925 Hz : 150 ms / Off : 600 ms

7 670 Hz : 250 ms / 845 Hz : 370 ms

8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms

9 1200 Hz : 500 ms / 500 Hz : 500 ms

10 970 Hz : 500 ms / Off : 500 ms

11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)

12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)

13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)

14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)

15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)

16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)

17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 800 Hz : 250 ms / 970 Hz : 250 ms

20 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off : 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

	33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)	
	34 - 988 Hz : 250 ms / 645 Hz : 250 ms	
	35 - 510 Hz : 250 ms / 610 Hz : 250 ms	
	36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)	
	37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)	
	38 - 845 Hz Continuous	
	39 - 970 Hz : 1000 ms / Off : 1000 ms	
	40 - 800 Hz : 150 ms / 970 Hz : 150 ms	
	41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)	
	42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)	
	43 - 2850 Hz : 1000 ms / Off : 1000 ms	
	44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms	
	45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms	
	46 - 440 Hz : 600 ms / Off : 600 ms	
	47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms	
	48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms	
	49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms	
	50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms	
	51 - Whoop 500-1200 3500 ms / Off 500 ms	
CHQ-WSB2(WHT)/RL	Addressable Type A/B Wall Sounder (Red LED) Beacon (YBO-R/3(WHT) and YBN-R/3(WHT)-SCI bases)	164t/04
	Notes:	
	1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:	
	- Category 0	
	- Flash rate 0.5Hz	
	- Synchronization	
	2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.	
	3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit	
	Approved tones:	
	1 925 Hz : 250 ms / 628 Hz : 250 ms	
	2 925 Hz Continuous	
	3 628 Hz Continuous	
	4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms	
	5 (Swedish) 660 Hz : 150 ms / Off : 150 ms	
	6 925 Hz : 150 ms / Off : 600 ms	
	7 670 Hz : 250 ms / 845 Hz : 370 ms	
	8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms	
	9 1200 Hz : 500 ms / 500 Hz : 500 ms	
	10 970 Hz : 500 ms / Off : 500 ms	
	11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)	
	12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)	
	13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)	
	14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)	
	15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)	
	16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)	
	17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms	
	18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms	
	19 800 Hz : 250 ms / 970 Hz : 250 ms	
	20 2850 Hz Continuous	
	21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms	
	22 - 800 Hz : 500 ms / 970 Hz : 500 ms	
	23 - 2850 Hz : 500 ms / Off : 500 ms	
	24 - 925 Hz : 250 ms / Off : 1000 ms	
	25 - 970 Hz Continuous	
	26 - 660 Hz : 1800 ms / Off : 1800 ms	
	27 - 660 Hz : 6500 ms / Off : 13000 ms	
	28 - 660 Hz Continuous	
	29 - 554 Hz : 500 ms / 440 Hz : 500 ms	
	30 - 660 Hz : 500 ms / Off : 500 ms	
	31 - 2850 Hz : 150 ms / Off : 100 ms	
	32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)	
	33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)	
	34 - 988 Hz : 250 ms / 645 Hz : 250 ms	
	35 - 510 Hz : 250 ms / 610 Hz : 250 ms	
	36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)	
	37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)	
	38 - 845 Hz Continuous	
	39 - 970 Hz : 1000 ms / Off : 1000 ms	
	40 - 800 Hz : 150 ms / 970 Hz : 150 ms	
	41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)	
	42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)	
	43 - 2850 Hz : 1000 ms / Off : 1000 ms	

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

	<p>44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms 46 - 440 Hz : 600 ms / Off : 600 ms 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms 51 - Whoop 500-1200 3500 ms / Off 500 ms</p>	
YBO-BSB2/WL	<p>Analogue Addressable Type A Base Sounder (White LED) Beacon (YBO-R/3(REDF), YBO-R/SCI(REDF) and YBN-R/3(WHT) bases)</p> <p>Notes:</p> <ol style="list-style-type: none">The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:<ul style="list-style-type: none">- Category 0- Flash rate 0.5Hz- SynchronizationMeets the requirements of EN 54-3 for all 51 tones as listed under approved tones <p>Approved tones:</p> <ol style="list-style-type: none">925 Hz : 250 ms / 628 Hz : 250 ms925 Hz Continuous628 Hz Continuous(French) 554 Hz : 100 ms / 440 Hz : 400 ms(Swedish) 660 Hz : 150 ms / Off : 150 ms925 Hz : 150 ms / Off : 600 ms670 Hz : 250 ms / 845 Hz : 370 msWhoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms1200 Hz : 500 ms / 500 Hz : 500 ms970 Hz : 500 ms / Off : 500 msSweep 800 Hz 970 Hz over 140 ms (7 Hz)Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)Sweep 800 Hz 970 Hz over 20 ms (50 Hz)Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)ISO8201 : 970 Hz : 500 ms / Off : 500 msISO8201 : 2850 Hz : 500 ms / Off : 500 ms800 Hz : 250 ms / 970 Hz : 250 ms2850 Hz Continuous2400 Hz : 250 ms / 2850 Hz : 250 ms800 Hz : 500 ms / 970 Hz : 500 ms2850 Hz : 500 ms / Off : 500 ms925 Hz : 250 ms / Off : 1000 ms970 Hz Continuous660 Hz : 1800 ms / Off: 1800 ms660 Hz : 6500 ms / Off : 13000 ms660 Hz Continuous554 Hz : 500 ms / 440 Hz : 500 ms660 Hz : 500 ms / Off : 500 ms2850 Hz : 150 ms / Off : 100 msSweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)988 Hz : 250 ms / 645 Hz : 250 ms510 Hz : 250 ms / 610 Hz : 250 msSweep 800 Hz - 970 Hz over 110 ms (9 Hz)Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)845 Hz Continuous970 Hz : 1000 ms / Off : 1000 ms800 Hz : 150 ms / 970 Hz : 150 msSweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)2850 Hz : 1000 ms / Off : 1000 ms2400 Hz : 150 ms / 2850 Hz : 150 ms(German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms440 Hz : 600 ms / Off : 600 msWhoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 msISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 msISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 msISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 msWhoop 500-1200 3500 ms / Off 500 ms	164t/05
YBO-BSB2/RL	<p>Analogue Addressable Type A Base Sounder (Red LED) Beacon (YBO-R/SCI(REDF) and YBN-R/3(WHT) bases)</p> <p>Notes:</p> <ol style="list-style-type: none">The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:	164t/06

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

- Category 0
 - Flash rate 0.5Hz
 - Synchronization
 - 2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones
- Approved tones:
- 1 925 Hz : 250 ms / 628 Hz : 250 ms
 - 2 925 Hz Continuous
 - 3 628 Hz Continuous
 - 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms
 - 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms
 - 6 925 Hz : 150 ms / Off : 600 ms
 - 7 670 Hz : 250 ms / 845 Hz : 370 ms
 - 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms
 - 9 1200 Hz : 500 ms / 500 Hz : 500 ms
 - 10 970 Hz : 500 ms / Off : 500 ms
 - 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)
 - 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)
 - 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)
 - 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)
 - 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)
 - 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)
 - 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms
 - 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
 - 19 800 Hz : 250 ms / 970 Hz : 250 ms
 - 20 2850 Hz Continuous
 - 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
 - 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
 - 23 - 2850 Hz : 500 ms / Off : 500 ms
 - 24 - 925 Hz : 250 ms / Off : 1000 ms
 - 25 - 970 Hz Continuous
 - 26 - 660 Hz : 1800 ms / Off : 1800 ms
 - 27 - 660 Hz : 6500 ms / Off : 13000 ms
 - 28 - 660 Hz Continuous
 - 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
 - 30 - 660 Hz : 500 ms / Off : 500 ms
 - 31 - 2850 Hz : 150 ms / Off : 100 ms
 - 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
 - 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
 - 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
 - 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
 - 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
 - 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
 - 38 - 845 Hz Continuous
 - 39 - 970 Hz : 1000 ms / Off : 1000 ms
 - 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
 - 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
 - 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
 - 43 - 2850 Hz : 1000 ms / Off : 1000 ms
 - 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
 - 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
 - 46 - 440 Hz : 600 ms / Off : 600 ms
 - 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
 - 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
 - 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
 - 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
 - 51 - Whoop 500-1200 3500 ms / Off 500 ms

YBO-BSB2(WHT)/WL

Analogue Addressable Type A Base Sounder (White LED) Beacon
YBN-R/3(WHT)-SCI Bases)

164t/07

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization
 2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones
- Approved tones:
- 1 925 Hz : 250 ms / 628 Hz : 250 ms
 - 2 925 Hz Continuous
 - 3 628 Hz Continuous
 - 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms
 - 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms
 - 6 925 Hz : 150 ms / Off : 600 ms
 - 7 670 Hz : 250 ms / 845 Hz : 370 ms
 - 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms
 - 9 1200 Hz : 500 ms / 500 Hz : 500 ms

Certificated Products

**LPCB Ref.
No.**

- 10 970 Hz : 500 ms / Off : 500 ms
- 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)
- 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)
- 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)
- 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)
- 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)
- 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)
- 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off: 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
- 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
- 51 - Whoop 500-1200 3500 ms / Off 500 ms

YBO-BSB2(WHT)/RL

Analogue Addressable Type A Base Sounder (Red LED) Beacon
YBO-R/3(WHT) & YBN-R/3(WHT)-SCI Bases

164t/08

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones

Approved tones: 1 925 Hz : 250 ms / 628 Hz : 250 ms

- 2 925 Hz Continuous
- 3 628 Hz Continuous
- 4 (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 925 Hz : 150 ms / Off : 600 ms
- 7 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 Whoop 500 Hz 1200 Hz : 3000 ms / Off : 500 ms
- 9 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 970 Hz : 500 ms / Off : 500 ms
- 11 Sweep 800 Hz 970 Hz over 140 ms (7 Hz)
- 12 Sweep 800 Hz 970 Hz over 1000 ms (1 Hz)
- 13 Sweep 800 Hz 970 Hz over 20 ms (50 Hz)
- 14 Sweep 2400 Hz 2850 Hz over 140 ms (7 Hz)
- 15 Sweep 2400 Hz 2850 Hz over 1000 ms (1 Hz)
- 16 Sweep 300 Hz 1200 Hz over 1000 ms (1 Hz)
- 17 ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms

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ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms

CHQ-WSB2/WL-HFP

Addressable Type A/B Wall Sounder (White LED) Beacon
(YBO-R/3(RED) and YBO-R/SCI(RED) bases)

164t/01

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization
2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.
3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit

Approved tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms
2 - 925 Hz Continuous
3 - 628 Hz Continuous
4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
6 - 925 Hz : 150 ms / Off : 600 ms
7 - 670 Hz : 250 ms / 845 Hz : 370 ms
8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
10 - 970 Hz : 500 ms / Off : 500 ms
11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 - 800 Hz : 250 ms / 970 Hz : 250 ms
20 - 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off: 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

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CHQ-WSB2/RL-HFP

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
 38 - 845 Hz Continuous
 39 - 970 Hz : 1000 ms / Off : 1000 ms
 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
 43 - 2850 Hz : 1000 ms / Off : 1000 ms
 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
 46 - 440 Hz : 600 ms / Off : 600 ms
 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
 51 - Whoop 500-1200 3500 ms / Off 500 ms

Addressable Type A/B Wall Sounder (Red LED) Beacon
 and YBO-R/SCI(RED) bases)

164t/02

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category 0

- Flash rate 0.5Hz

- Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.

3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit

Approved tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms

2 - 925 Hz Continuous

3 - 628 Hz Continuous

4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 - 925 Hz : 150 ms / Off : 600 ms

7 - 670 Hz : 250 ms / 845 Hz : 370 ms

8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms

9 - 1200 Hz : 500 ms / 500 Hz : 500 ms

10 - 970 Hz : 500 ms / Off : 500 ms

11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)

12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)

13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)

14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)

15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)

16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)

17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 - 800 Hz : 250 ms / 970 Hz : 250 ms

20 - 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

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CHQ-WSB2(WHT)/WL-
HFP

43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms

Addressable Type A/B Wall Sounder (White LED) Beacon
and YBN-R/3(WHT)-SCI bases)

164t/03

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.

3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit

Approved tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms
2 - 925 Hz Continuous
3 - 628 Hz Continuous
4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
6 - 925 Hz : 150 ms / Off : 600 ms
7 - 670 Hz : 250 ms / 845 Hz : 370 ms
8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
10 - 970 Hz : 500 ms / Off : 500 ms
11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
19 - 800 Hz : 250 ms / 970 Hz : 250 ms
20 - 2850 Hz Continuous
21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
22 - 800 Hz : 500 ms / 970 Hz : 500 ms
23 - 2850 Hz : 500 ms / Off : 500 ms
24 - 925 Hz : 250 ms / Off : 1000 ms
25 - 970 Hz Continuous
26 - 660 Hz : 1800 ms / Off : 1800 ms
27 - 660 Hz : 6500 ms / Off : 13000 ms
28 - 660 Hz Continuous
29 - 554 Hz : 500 ms / 440 Hz : 500 ms
30 - 660 Hz : 500 ms / Off : 500 ms
31 - 2850 Hz : 150 ms / Off : 100 ms
32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
34 - 988 Hz : 250 ms / 645 Hz : 250 ms
35 - 510 Hz : 250 ms / 610 Hz : 250 ms
36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
38 - 845 Hz Continuous
39 - 970 Hz : 1000 ms / Off : 1000 ms
40 - 800 Hz : 150 ms / 970 Hz : 150 ms
41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
43 - 2850 Hz : 1000 ms / Off : 1000 ms
44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
46 - 440 Hz : 600 ms / Off : 600 ms
47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms

CHQ-WSB2(WHT)/RL-HFP

Addressable Type A/B Wall Sounder (Red LED) Beacon

164t/04

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YBN-R/3(WHT)-SCI Bases)

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category 0

- Flash rate 0.5Hz

- Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.

3. The VAD is Type A when used with any of the above bases and Type B when used with a WS2-WPK weatherproofing kit

Approved tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms

2 - 925 Hz Continuous

3 - 628 Hz Continuous

4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms

5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms

6 - 925 Hz : 150 ms / Off : 600 ms

7 - 670 Hz : 250 ms / 845 Hz : 370 ms

8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms

9 - 1200 Hz : 500 ms / 500 Hz : 500 ms

10 - 970 Hz : 500 ms / Off : 500 ms

11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)

12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)

13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)

14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)

15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)

16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)

17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms

18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms

19 - 800 Hz : 250 ms / 970 Hz : 250 ms

20 - 2850 Hz Continuous

21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms

22 - 800 Hz : 500 ms / 970 Hz : 500 ms

23 - 2850 Hz : 500 ms / Off : 500 ms

24 - 925 Hz : 250 ms / Off : 1000 ms

25 - 970 Hz Continuous

26 - 660 Hz : 1800 ms / Off: 1800 ms

27 - 660 Hz : 6500 ms / Off : 13000 ms

28 - 660 Hz Continuous

29 - 554 Hz : 500 ms / 440 Hz : 500 ms

30 - 660 Hz : 500 ms / Off : 500 ms

31 - 2850 Hz : 150 ms / Off : 100 ms

32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)

33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)

34 - 988 Hz : 250 ms / 645 Hz : 250 ms

35 - 510 Hz : 250 ms / 610 Hz : 250 ms

36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)

37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)

38 - 845 Hz Continuous

39 - 970 Hz : 1000 ms / Off : 1000 ms

40 - 800 Hz : 150 ms / 970 Hz : 150 ms

41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)

42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)

43 - 2850 Hz : 1000 ms / Off : 1000 ms

44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms

45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms

46 - 440 Hz : 600 ms / Off : 600 ms

47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms

48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms

49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms

51 - Whoop 500-1200 3500 ms / Off 500 ms

YBO-BSB2(WHT)WL-HFP

Analogue Addressable Type A Base Sounder (White LED) Beacon

YBN-R/3(WHT)-SCI Bases)

164t/07

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category 0

- Flash rate 0.5Hz

- Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones

Approved tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms

2 - 925 Hz Continuous

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- 3 - 628 Hz Continuous
- 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 - 925 Hz : 150 ms / Off : 600 ms
- 7 - 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
- 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 - 970 Hz : 500 ms / Off : 500 ms
- 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
- 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
- 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
- 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
- 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
- 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
- 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 - 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 - 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off : 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
- 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
- 51 - Whoop 500-1200 3500 ms / Off 500 ms

YBO-BSB2(WHT)/RL-HFP

Analogue Addressable Type A Base Sounder (Red LED) Beacon
YBN-R/3(WHT)-SCI Bases)

164t/08

Notes:

1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category 0
- Flash rate 0.5Hz
- Synchronization

2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones

Approved tones:

- 1 - 925 Hz : 250 ms / 628 Hz : 250 ms
- 2 - 925 Hz Continuous
- 3 - 628 Hz Continuous
- 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 - 925 Hz : 150 ms / Off : 600 ms
- 7 - 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
- 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 - 970 Hz : 500 ms / Off : 500 ms
- 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
- 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
- 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
- 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)

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- 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
- 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
- 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 - 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 - 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off : 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
- 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
- 51 - Whoop 500-1200 3500 ms / Off 500 ms

CHQ-WBWL

Intelligent Analogue Addressable Type A Wall VAD (White LED)(YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)

164s/10

Notes:

1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-5
 - LOL 0 - Flash rate 0.5Hz
 - Synchronization
2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-5.5
 - LOL 1 - Flash rate 0.5Hz
 - Synchronization
3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-7
 - LOL 2 - Flash rate 0.5Hz
 - Synchronization
4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-1
 - LOL 1 - Flash rate 1Hz
 - Synchronization
5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-5.5
 - LOL 2 - Flash rate 1Hz
 - Synchronization
6. The Default factory setting is LOL 1, 0.5Hz
7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.

CHQ-WB(WHT)/WL

Intelligent Analogue Addressable Type A Wall VAD (White LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)

164s/11

Notes:

1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-5
 - LOL 0 - Flash rate 0.5Hz
 - Synchronization
2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:
 - Light Coverage Distance W-2.4-5.5
 - LOL 1 - Flash rate 0.5Hz

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	<ul style="list-style-type: none">- Synchronization <p>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-7- LOL 2 - Flash rate 0.5Hz- Synchronization <p>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-1- LOL 1 - Flash rate 1Hz- Synchronization <p>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 2 - Flash rate 1Hz- Synchronization <p>6. The Default factory setting is LOL 1, 0.5Hz</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p>	
CHQ-WB(RED)/WL	Intelligent Analogue Addressable Type A Wall VAD (White LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:	164s/12
	<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5- LOL 0 - Flash rate 0.5Hz- Synchronization <p>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 1 - Flash rate 0.5Hz- Synchronization <p>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-7- LOL 2 - Flash rate 0.5Hz- Synchronization <p>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-1- LOL 1 - Flash rate 1Hz- Synchronization <p>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 2 - Flash rate 1Hz- Synchronization <p>6. The Default factory setting is LOL 1, 0.5Hz</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p>	
CHQ-WB/RL	Intelligent Analogue Addressable Type A Wall VAD (Red LED) (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:	164s/13
	<ul style="list-style-type: none">- Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)- LOL 0 - Flash rate 0.5Hz- Synchronization <p>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-5- LOL 1 - Flash rate 0.5Hz- Synchronization <p>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 2 - Flash rate 0.5Hz- Synchronization <p>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.7-1.07- LOL 1 - Flash rate 1Hz- Synchronization <p>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:</p> <ul style="list-style-type: none">- Light Coverage Distance W-2.4-4- LOL 2 - Flash rate 1Hz- Synchronization <p>6. The Default factory setting is LOL 1, 0.5Hz</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p>	
CHQ-WB(WHT)/RL	Intelligent Analogue Addressable Type A Wall VAD (Red LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases) Notes: 1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:	164s/14
	<ul style="list-style-type: none">- Light Coverage Distance O-2-3* * Light coverage defined as	

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<p>per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization</p> <p>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization</p> <p>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization</p> <p>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization</p> <p>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization</p> <p>6. The Default factory setting is LOL 1, 0.5Hz</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p>	<p>Intelligent Analogue Addressable Type A Wall VAD (Red LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes</p> <p>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular) - LOL 0 - Flash rate 0.5Hz - Synchronization</p> <p>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 1 - Flash rate 0.5Hz - Synchronization</p> <p>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 0.5Hz - Synchronization</p> <p>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.7-1.07 - LOL 1 - Flash rate 1Hz - Synchronization</p> <p>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization</p> <p>6. The Default factory setting is LOL 1, 0.5Hz</p> <p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p>	<p>164s/15</p>
<p>CHQ-WB(WHT)/WL-HFP</p>	<p>Intelligent Analogue Addressable Type A Wall VAD (White LED) - White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <p>1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5 - LOL 0 - Flash rate 0.5Hz - Synchronization</p> <p>2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 1 - Flash rate 0.5Hz - Synchronization</p> <p>3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-7 - LOL 2 - Flash rate 0.5Hz - Synchronization</p> <p>4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-1 - LOL 1 - Flash rate 1Hz - Synchronization</p> <p>5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-5.5 - LOL 2 - Flash rate 1Hz - Synchronization</p> <p>6. The Default factory setting is LOL 1, 0.5Hz</p>	<p>164s/11</p>

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<p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p> <p>Intelligent Analogue Addressable Type A Wall VAD (White LED)-Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5- LOL 0 - Flash rate 0.5Hz- Synchronization2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 1 - Flash rate 0.5Hz- Synchronization3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-7- LOL 2 - Flash rate 0.5Hz- Synchronization4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-1- LOL 1 - Flash rate 1Hz- Synchronization5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 2 - Flash rate 1Hz- Synchronization6. The Default factory setting is LOL 1, 0.5Hz	164s/12
<p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p> <p>Intelligent Analogue Addressable Type A Wall VAD (Red LED)-White Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes</p> <ol style="list-style-type: none">1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance O-2-3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)- LOL 0 - Flash rate 0.5Hz- Synchronization2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5- LOL 1 - Flash rate 0.5Hz- Synchronization3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 2 - Flash rate 0.5Hz- Synchronization4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.7-1.07- LOL 1 - Flash rate 1Hz- Synchronization5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-4- LOL 2 - Flash rate 1Hz- Synchronization6. The Default factory setting is LOL 1, 0.5Hz	164s/14
<p>7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.</p> <p>Intelligent Analogue Addressable Type A Wall VAD (Red LED) - Red Body (YBO-R/SCI, YBN-R/3(SCI), YBN-R/3, YBO-BS, YBO-BSB2(RL&WL) & YBO-BSB Bases)</p> <p>Notes</p> <ol style="list-style-type: none">1. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance O-2.3* * Light coverage defined as per standard W-rating but with a maximum height of 2m(rectangular)- LOL 0 - Flash rate 0.5Hz- Synchronization2. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5- LOL 1 - Flash rate 0.5Hz- Synchronization3. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.4-5.5- LOL 2 - Flash rate 0.5Hz- Synchronization4. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories:<ul style="list-style-type: none">- Light Coverage Distance W-2.7-1.07	164s/15

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	- LOL 1 - Flash rate 1Hz - Synchronization	
	5. The Wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories: - Light Coverage Distance W-2.4-4 - LOL 2 - Flash rate 1Hz - Synchronization	
	6. The Default factory setting is LOL 1, 0.5Hz	
	7. Type B for outdoor use when used in conjunction with a WS2-WPK weatherproofing kit.	
YBO-BSB2(BLK)/RL	Addressable Type A Base Sounder Beacon (Black Housing, Red LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases	164t/09
	Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization	
YBO-BSB2(BLK)/WL	2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones Addressable Type A Base Sounder Beacon (Black Housing, White LED) YBO-R/3(RED), YBO-R/SCI(RED) and YBN-R/3(WHT), YBO-R/3(WHT) and YBN-R/3(SCI) Bases	164t/10
	Notes: 1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category 0 - Flash rate 0.5Hz - Synchronization	
	2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones	

Bases:

YBN-R/3 Analogue mounting base (ivory and white)
YBO-R/SCI Isolator base
YBO-R/3(RED) Standard Base
YBO-R/SCI(RED) Short Circuit Isolator Base
YBN-R/3(WHT) Standard Base
YBO-R/3(WHT) Standard Base
YBN-R/3(SCI) Short Circuit Isolator Base

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Certificate No: 166h-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 166j-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005
Certificate No: 166t-(cl-2) to EN 54-23:2010
Certificate No: 166m-(cl-2) to EN 54-17: 2005 & EN 54-23:2010
Certificate No: 166p-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006 and EN 54-3:2010
Certificate No: 166r-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005 & EN 54-23:2010
Certificate No: 166s-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010

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WSO-xx-Nyy	Analogue addressable Type A/B wall mounted sounder (B501AP-cc, Bcc, Wcc bases)	166h/01
	Notes: 1. xx indicates body colour. PR =Red, PP =Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;	

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	12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;	
	14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	
	4. Approved as Type B only when used with Wcc base.	
WSS-xx-Nyy	Analogue addressable Type A/B wall mounted sounder/strobe (B501AP-cc, Bcc, Wcc bases)	166h/02
	Notes: 1. xx indicates body/lens colour. PR =Red/Red, PA =Amber/Amber, PC =Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;	
	14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.	
	4. Certification excludes the strobe function.	
	5. Approved as Type B only when used with Wcc base.	
BSO-xx-Nyy	Analogue addressable Type A integrated detector base sounder (B501AP-cc, Bcc and Wcc bases)	166h/03
	Notes: 1. xx indicates body colour. PP =Pure White, DD =Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;	
	14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;	

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BSS-xx-Nyy	<p>31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz</p> <p>Analogue addressable Type A integrated detector base sounder/strobe (B501AP-cc, Bcc and Wcc bases)</p> <p>Notes:</p> <ol style="list-style-type: none">xx indicates body/lens colour. PR =Pure White/Red, PA =Pure White/Amber, PC =Pure White/Clear, DR =Detector White/Red, DA =Detector White/Amber, DC =Detector White/Clearyy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.Certification excludes the strobe function.	166h/04
WSO-xx-lyy	<p>Analogue addressable Type A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)</p> <p>Notes:</p> <ol style="list-style-type: none">xx indicates body colour. PR =Red, PP =Pure Whiteyy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.Approved as Type B only when used with Wcc base.	166j/01
WSS-xx-lyy	<p>Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)</p> <p>Notes:</p> <ol style="list-style-type: none">xx indicates body/lens colour. PR =Red/Red, PA =Amber/Amber, PC =Clear/Clearyy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;	166j/02

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	<p>4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;</p> <p>14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.</p>	
BSO-xx-lyy	<p>Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases) 166j/03</p> <p>Notes:</p> <p>1. xx indicates body colour. PP =Pure White, DD =Detector White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;</p> <p>14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p>	
BSS-xx-lyy	<p>Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases) 166j/04</p> <p>Notes:</p> <p>1. xx indicates body/lens colour. PR =Pure White/Red, PA =Pure White/Amber, PC =Pure White/Clear, DR =Detector White/Red, DA =Detector White/Amber, DC =Detector White/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;</p> <p>14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;</p>	

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Certificated Products		LPCB Ref. No.
WST-xC-Nyy	<p>24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Certification excludes the strobe function.</p> <p>Analogue addressable wall mounted LED strobe (B501AP base)</p> <p>Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box</p>	166t/01
WST-PC-100	<p>Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base)</p> <p>Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box</p>	166m/01
WSS-xC-lyy	<p>Analogue Addressable Wall Mounted Sounder / LED Strobe with Short Circuit Isolator (B501AP base)</p> <p>Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. x indicates body colour. D=Detector White, P=Pure White 3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 4. Type A with Bcc deep back box, Type B with Wcc deep back box 5. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz</p>	166r/01
VAD-PC-N##	<p>Analogue Addressable High Output Beacon (B501AP base)</p> <p>Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):</p>	166t/02

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Certificated Products		LPCB Ref. No.
	<ul style="list-style-type: none">- Category C: C-3-5.1, C-6-5.1, C-9-5.1- Category W: W-2.4-2.76- Flash rate 0.5Hz- Synchronization <p>2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW</p> <p>3. ## indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)</p>	
VAD-PC-I##	Analogue Addressable High Output Beacon with Short Circuit Isolator (B501AP base)	166m/02
	<p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):</p> <ul style="list-style-type: none">• Category C: C-3-5.1, C-6-5.1, C-9-5.1• Category W: W-2.4-2.76• Flash rate 0.5Hz• Synchronization <p>2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW</p> <p>3. ## indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)</p>	
DSS-xC-Iyy	Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base)	166r/02
	<p>Notes:</p> <p>1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):</p> <ul style="list-style-type: none">- Category O - Open Class- Flash rate 1Hz- Synchronization <p>2. x indicates body colour. D=Detector White, P=Pure White</p> <p>3. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)</p> <p>4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:</p> <p>554/440, 2Hz (100ms/400ms); 800/970, 1Hz; 800/970, 2Hz; 2400/2900, 3Hz; 2500/3100, 2Hz; 6) 988/645, 2Hz; 660Hz; 970Hz; 1200Hz; 2850Hz; 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 420Hz, 0.625s on, 0.625 sec off; 500-1200Hz, 0.25 sec off, 3.75 sec on; 660, 3.33Hz, 150ms on, 150ms off; 970, 0.8Hz 0.25s on, 1s off; 970, 0.5Hz 1s on, 1s off; 2850, 1Hz; 970, 1Hz 500ms on, 500ms off; 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 800Hz; 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 2400 - 2850, 7Hz; 500 - 1200Hz, (0.5s off, 3.5s on); 800 - 970, 50Hz; 800 - 970, 7Hz; 800 - 970, 1Hz; 2400 - 2850, 50Hz; 500 - 1000, 7Hz; 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 800 - 1000, 2Hz; 2400 - 2850, 1Hz.</p>	
WSS-xC-Nyy	Analogue Addressable Wall Mounted Sounder / LED Strobe(B501AP base)	166s/01

Certificated Products

**LPCB Ref.
No.**

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):

- Category O - Open Class
- Flash rate 1Hz
- Synchronization

2. x indicates body colour. D=Detector White, P=Pure White

3. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

4. Type A with Bcc deep back box, Type B with Wcc deep back box

5. Meets the requirements of EN54-3: 2001 at the following tones:

Alternating 525/440, 2Hz (100ms/400ms);

Alternating 800/922, 1Hz;

Alternating 800/922, 2Hz;

Alternating 2400/2900, 3Hz;

Alternating 2500/3100, 2Hz;

Alternating 988/645, 2Hz;

Continuous 630Hz;

Continuous 922Hz;

Continuous 1200Hz;

Continuous 2810Hz;

Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then

Intermittent 420Hz, 0.625s on, 0.625 sec off;

Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on;

Intermittent 630, 3.33Hz, 150ms on, 150ms off;

Intermittent 922, 0.8Hz 0.25s on, 1s off;

Intermittent 922, 0.5Hz 1s on, 1s off;

Intermittent 2810, 1Hz;

Intermittent 922, 1Hz 500ms on, 500ms off;

Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

Continuous 800Hz;

Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;

Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;

Sweep 2400 - 2850, 7Hz;

Sweep 500 - 1200Hz, (0.5s off, 3.5s on);

Sweep 800 - 970, 50Hz;

Sweep 800 - 970, 7Hz;

Sweep 800 - 970, 1Hz;

Sweep 2400 - 2850, 50Hz;

Sweep 500 - 1000, 7Hz;

Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;

Sweep 800 - 1000, 2Hz;

Sweep 2400 - 2850, 1Hz

DSS-xC-Nyy

Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base)

166s/02

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):

- Category O - Open Class
- Flash rate 1Hz
- Synchronization

2. x indicates body colour, D=Detector White, P=Pure White

3. yy indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:

1) 554/440, 2Hz (100ms/400ms);

2) 800/970, 1Hz;

3) 800/970, 2Hz;

4) 2400/2900, 3Hz;

5) 2500/3100, 2Hz;

6) 988/645, 2Hz;

7) 660Hz;

8) 970Hz;

9) 1200Hz;

10) 2850Hz;

11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;

12) 420Hz, 0.625s on, 0.625 sec off;

13) 500-1200Hz, 0.25 sec off, 3.75 sec on;

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- 14) 660, 3.33Hz, 150ms on, 150ms off;
 - 15) 970, 0.8Hz 0.25s on, 1s off;
 - 16) 970, 0.5Hz 1s on, 1s off;
 - 17) 2850, 1Hz;
 - 18) 970, 1Hz 500ms on, 500ms off;
 - 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
 - 20) 800Hz;
 - 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
 - 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
 - 23) 2400 - 2850, 7Hz;
 - 24) 500 - 1200Hz, (0.5s off, 3.5s on);
 - 25) 800 - 970, 50Hz;
 - 26) 800 - 970, 7Hz;
 - 27) 800 - 970, 1Hz;
 - 28) 2400 - 2850, 50Hz;
 - 29) 500 - 1000, 7Hz;
 - 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
 - 31) 800 - 1000, 2Hz;
- 2400 - 2850, 1Hz

BGL-xC-lxx

Addressable Type A Detector Base Strobe

166m/03

Notes:

1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category rating C-3-8.5
 - Synchronization
 - Flash rate 0.5Hz
 - Red LED
 - Clear lens

2. x indicates body colour. D=Detector White, P=Pure White

3. xx indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

BRH-xC-lxx

Addressable Type A Detector Base Sounder Strobe

166r/03

Notes:

1. x indicates body colour. Detector White, P=Pure White

2. xx indicates customer and associated communication protocol.

01 indicates Advanced Protocol (and Honeywell 500 series protocol)

00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)

3. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms

Tone 2 - Alternating 800 / 922Hz for 1Hz

Tone 3 - Alternating 800 / 922Hz for 2Hz

Tone 4 - Alternating 2400 / 2900Hz for 3Hz

Tone 5 - Alternating 2500 / 3100Hz for 2Hz

Tone 6 - Alternating 988 / 645Hz for 2Hz

Tone 7 - Continuous 630Hz

Tone 8 - Continuous 922Hz

Tone 9 - Continuous 1200Hz

Tone 10 - Continuous 2810Hz

Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,

Hold 100Hz for 40s

Falling from 100Hz to 500Hz in 10s,

Hold 500Hz for 20s

Tone 12 - Intermittent 420Hz for 150ms on, 150ms off

Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off

Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

Tone 15 - Intermittent 922Hz for 0.25s on, 1s off

Tone 16 - Intermittent 922Hz for 1s on, 1s off

Tone 17 - Intermittent 2810Hz for 1Hz

Tone 18 - Intermittent 922Hz for 500ms on, 500ms off

Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off

Tone 20 - Continuous 800Hz

Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off.

Repeat 3 times then 1.5s off

Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off

Tone 23 - Sweep 2400-2850Hz for 7Hz

Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.5s, then 3.5s off

Tone 25 - Sweep 800-970Hz for 50Hz

Tone 26 - Sweep 800-970Hz for 7Hz

Tone 27 - Sweep 800-970Hz for 1Hz

Tone 28 - Sweep 2400-2850Hz for 50Hz

Tone 29 - Sweep 500-1000Hz for 7Hz

Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,

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	Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings High C-3-15 & O-1-4 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	
BRS-PC-Ixx	Addressable Type A Detector Base Sounder Strobe Notes: 1. P indicates body colour. P=Pure White 2. xx indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN 54-3:2001 for the following tones: Tone 1 - Alternating 525 / 440Hz in 100ms/400ms Tone 2 - Alternating 800 / 922Hz for 1Hz Tone 3 - Alternating 800 / 922Hz for 2Hz Tone 4 - Alternating 2400 / 2900Hz for 3Hz Tone 5 - Alternating 2500 / 3100Hz for 2Hz Tone 6 - Alternating 988 / 645Hz for 2Hz Tone 7 - Continuous 630Hz Tone 8 - Continuous 922Hz Tone 9 - Continuous 1200Hz Tone 10 - Continuous 2810Hz Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s Falling from 100Hz to 500Hz in 10s, Hold 500Hz for 20s Tone 12 - Intermittent 420Hz for 150ms on, 150ms off Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off Tone 14 - Intermittent 630Hz for 150ms on, 150ms off Tone 15 - Intermittent 922Hz for 0.25s on, 1s off Tone 16 - Intermittent 922Hz for 1s on, 1s off Tone 17 - Intermittent 2810Hz for 1Hz Tone 18 - Intermittent 922Hz for 500ms on, 500ms off Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off Tone 20 - Continuous 800Hz Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off. Repeat 3 times then 1.5s off Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off Tone 23 - Sweep 2400-2850Hz for 7Hz Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.5s, then 3.5s off Tone 25 - Sweep 800-970Hz for 50Hz Tone 26 - Sweep 800-970Hz for 7Hz Tone 27 - Sweep 800-970Hz for 1Hz Tone 28 - Sweep 2400-2850Hz for 50Hz Tone 29 - Sweep 500-1000Hz for 7Hz Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s, Hold 1200Hz for 4s Falling from 1200Hz to 500Hz in 1s Tone 31 - Sweep 800-1000Hz for 2Hz Tone 32 - Sweep 2400-2850Hz for 1Hz 4. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category ratings C-3-8.5 & O-1-3 - Synchronization - Flash rate 0.5Hz & 1Hz - Red LED - Clear lens	166r/04

Bases / Ancillaries

B501AP-cc	Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White
Bcc	Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc	Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP	Mounting base - Low profile base IP21C
Bcc	Deep Back Box
Wcc	Waterproof Deep Back Box IP33C

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ALARM WARNING DEVICES

Horing LIH Industrial Co Ltd

No. 35, Er-Hu Road, Hu-Hsi Village, Yuan-Shan Hsiang, Yilan Hsien 264, Taiwan ROC
Tel: +886 2 22487599 • Fax: +886 2 22407752

Certificate No: 506e to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products

		LPCB Ref. No.
AH-0218	Conventional fire alarm bell	506e/01
AH-03127S	Conventional Type B electronic sounder (AH-03127MB Base) Note: Meets the requirements of EN54-3: 2001 at the following tones: 1-Alternating Tones 800/970Hz at 2Hz 2-Sweeping 800/970Hz at 7Hz	506e/02
AH-03127-BS	Conventional Type B electronic sounder beacon (AH-03127MB Base) Notes: 1. Meets the requirements of EN54-3: 2001 at the following tones: 1-Alternating Tones 800/970Hz at 2Hz 2-Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval.	506e/03

Base:

AH-03127MB

Hosiden Besson Limited

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Tel: +44 (0)1273 860000 • Fax: +44 (0)1273 777501
E-mail: info@hbl.co.uk • Website: www.hbl.co.uk

Certificate No: 539c to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products

		LPCB Ref. No.
Banshee Excel	Banshee Excel Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/01
Banshee Excel Bi-Polar	Banshee Excel Audible Warning Device Notes: 1. Approved to Type A Indoor only with Shallow Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/02
Banshee Excel Lite	Banshee Excel Lite Xenon Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base 2. Meets the requirements of EN 54-3:2001 with the following tones: - Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz - Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz - Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s - Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms - Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms	539c/03
LED Banshee Excel Lite	Banshee Excel Lite LED Audible Warning Device Notes: 1. Type A with Shallow Base, Type B with Deep Base	539c/04

Certificated Products

LPCB Ref. No.

- 2. Meets the requirements of EN 54-3:2001 with the following tones:
- Tone A, Banshee Fast Sweep LF, 800Hz to 950Hz @ 9Hz
- Tone B, Medium Sweep LF, 800Hz to 970Hz @ 1Hz
- Tone C, Slow Whoop, 500Hz rising to 1200Hz over 3.5s, silence 0.5s
- Tone D, DIN Tone (DK), 1200Hz falling to 500Hz over 1s, silence 10ms
- Tone E, French Fire Sounder, 554Hz for 100ms and 440Hz for 400ms

Bases:

Shallow base (various colour options)
Deep base (various colour options)

KAC Alarm Company Limited

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Tel: +44 (0)1527 406655 • Fax: +44 (0)1527 406677
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Certificate No: 166c to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 166m to EN 54-17:2005 & EN 54-23:2010
Certificate No: 166n to EN 54-23:2010
Certificate No: 166p to EN 54-3:2001 & A1:2002 + A2: 2006 & EN 54-23:2010

Certificated Products

LPCB Ref. No.

DBS1224B4W	Conventional Type A wall mounted sounder <i>Note: Meets the requirements of EN54-3 for all tones and output levels at voltage ranges 10-14 VDC and 21-27 VDC</i>	166c/30
DBS1224B4W-D	4 Tone Type A conventional ceiling mounting sounder, white <i>Note: Meets the requirements of EN 54-3 at all output levels, and voltage ranges of 10-14 VDC and 19.5-28 VDC for the following tones: 1 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence 2 - 800Hz continuous 3 - 500Hz-1200Hz slow whoop 4 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence</i>	166c/40
WST-xC-lyy	Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base) <i>Notes:</i> 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz - Synchronization 2. Type A with Bcc deep back box, Type B with Wcc deep back box 3. x indicates body colour. D =Detector White, P =Pure White 4. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)	166m/01
CWST-WW-YY	Conventional beacon <i>Notes:</i> 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-9 - Category C: C-3-9.5, C-6-9.5, C-9-9.5 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WW indicates white body / white LED 4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)	166n/02
CWST-RR-YY	Conventional beacon <i>Notes:</i> 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-6.7 - Category C: C-3-9.4, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box	166n/03

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No.

	<p>3. RR indicates red body / red LED</p> <p>4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)</p>	
CWST-WR-YY	<p>Conventional beacon</p> <p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-6.2 - Category C: C-3-9.4, C-6-8.2 - Flash rate 0.5Hz - Synchronization</p> <p>2. Type A with CSW shallow back box, Type B with CWW deep back box</p> <p>3. WR indicates white body / red LED</p> <p>4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)</p>	166n/04
CWST-RW-YY	<p>Conventional beacon</p> <p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-9 - Category C: C-3-9.5, C-6-9.5, C-9-9.5 - Flash rate 0.5Hz - Synchronization</p> <p>2. Type A with CSR shallow back box, Type B with CWR deep back box</p> <p>3. RW indicates red body / white LED</p> <p>4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)</p>	166n/05
CWSS-WW-YY	<p>Conventional sounder beacon</p> <p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-8.9, - Category C: C-3-10, C-6-10 - Flash rate 0.5Hz - Synchronization</p> <p>2. Type A with CSW shallow back box, Type B with CWW deep back box</p> <p>3. WW indicates white body / white LED</p> <p>4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)</p> <p>5. Meets the requirements of EN54-3: 2001 for the following tones:</p> <ol style="list-style-type: none">1) 554/440, 2Hz (100ms/400ms);2) 800/970, 1Hz;3) 800/970, 2Hz;4) 2400/2900, 3Hz;5) 2500/3100, 2Hz;6) 988/645, 2Hz;7) 660Hz;8) 970Hz;9) 1200Hz;10) 2850Hz;11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz12) 420Hz, 0.625s on, 0.625 sec off;13) 500-1200Hz, 0.25 sec off, 3.75 sec on;14) 660, 3.33Hz, 150ms on, 150ms off;15) 970, 0.8Hz 0.25s on, 1s off;16) 970, 0.5Hz 1s on, 1s off;17) 2850, 1Hz;18) 970, 1Hz 500ms on, 500ms off;19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;20) 800Hz;21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;23) 2400 - 2850, 7Hz;24) 500 - 1200Hz, (0.5s off, 3.5s on);25) 800 - 970, 50Hz;26) 800 - 970, 7Hz;27) 800 - 970, 1Hz;	166p/02

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CWSS-RR-YY	<p style="text-align: center;">28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz</p> <p>Conventional sounder beacon</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): <ul style="list-style-type: none"> - Category W: W-2.4-6.8 - Category C: C-3-8.9, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSR shallow back box, Type B with CWR deep back box 3. RR indicates red body / red LED 4. YY indicates mounting option. <ul style="list-style-type: none"> Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: <ol style="list-style-type: none"> 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec on, 3.75 sec off; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s on, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz 	166p/03
CWSS-WR-YY	<p>Conventional sounder beacon</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): <ul style="list-style-type: none"> - Category W: W-2.4-6 - Category C: C-3-8.9, C-6-8.2 - Flash rate 0.5Hz - Synchronization 2. Type A with CSW shallow back box, Type B with CWW deep back box 3. WR indicates white body / red LED 4. YY indicates mounting option. <ul style="list-style-type: none"> Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix) 5. Meets the requirements of EN54-3: 2001 for the following tones: <ol style="list-style-type: none"> 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 	166p/04

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	<p>9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz</p>	
CWSS-RW-YY	<p>Conventional sounder beacon</p> <p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details): - Category W: W-2.4-8.9 - Category C: C-3-10, C-6-10 - Flash rate 0.5Hz - Synchronization</p> <p>2. Type A with CSR shallow back box, Type B with CWR deep back box</p> <p>3. RW indicates red body / white LED</p> <p>4. YY indicates mounting option. Where S5 = shallow back box (standard fix) Where S6 = shallow back box (first fix) Where W5 = deep back box (standard fix) Where W6 = deep back box (first fix)</p> <p>5. Meets the requirements of EN54-3: 2001 for the following tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz</p>	166p/05
CWSS-WR-ZZ	<p>Conventional sounder beacon</p> <p>Notes:</p>	166p/06

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1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: Open class only (Refer to installation manual) - Flash rate 0.5Hz
- Synchronization
2. Type A with CSW shallow back box, Type B with CWW deep back box
3. **WR** indicates white body / red LED
4. **ZZ** indicates mounting option. Where S3 = shallow back box (standard fix)
Where S4 = shallow back box (first fix)
Where W3 = deep back box (standard fix)
Where W4 = deep back box (first fix)
5. Meets the requirements of EN54-3: 2001 for the following tones:
 - 1) 554/440, 2Hz (100ms/400ms);
 - 2) 800/970, 1Hz;
 - 3) 800/970, 2Hz;
 - 4) 2400/2900, 3Hz;
 - 5) 2500/3100, 2Hz;
 - 6) 988/645, 2Hz;
 - 7) 660Hz;
 - 8) 970Hz;
 - 9) 1200Hz;
 - 10) 2850Hz;
 - 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
 - 12) 420Hz, 0.625s on, 0.625 sec off;
 - 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
 - 14) 660, 3.33Hz, 150ms on, 150ms off;
 - 15) 970, 0.8Hz 0.25s on, 1s off;
 - 16) 970, 0.5Hz 1s on, 1s off;
 - 17) 2850, 1Hz;
 - 18) 970, 1Hz 500ms on, 500ms off;
 - 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
 - 20) 800Hz;
 - 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
 - 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
 - 23) 2400 - 2850, 7Hz;
 - 24) 500 - 1200Hz, (0.5s off, 3.5s on);
 - 25) 800 - 970, 50Hz;
 - 26) 800 - 970, 7Hz;
 - 27) 800 - 970, 1Hz;
 - 28) 2400 - 2850, 50Hz;
 - 29) 500 - 1000, 7Hz;
 - 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
 - 31) 800 - 1000, 2Hz;
 - 32) 2400 - 2850, 1Hz

CWSS-RR-ZZ

Conventional sounder beacon

166p/07

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: Open class only (Refer to installation manual)
- Flash rate 0.5Hz
- Synchronization
2. Type A with CSR shallow back box, Type B with CWR deep back box
3. **RR** indicates red body / red LED
4. **ZZ** indicates mounting option. Where S3 = shallow back box (standard fix)
Where S4 = shallow back box (first fix)
Where W3 = deep back box (standard fix)
Where W4 = deep back box (first fix)
5. Meets the requirements of EN54-3: 2001 for the following tones:
 - 1) 554/440, 2Hz (100ms/400ms);
 - 2) 800/970, 1Hz;
 - 3) 800/970, 2Hz;
 - 4) 2400/2900, 3Hz;
 - 5) 2500/3100, 2Hz;
 - 6) 988/645, 2Hz;
 - 7) 660Hz;
 - 8) 970Hz;
 - 9) 1200Hz;
 - 10) 2850Hz;
 - 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
 - 12) 420Hz, 0.625s on, 0.625 sec off;
 - 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
 - 14) 660, 3.33Hz, 150ms on, 150ms off;
 - 15) 970, 0.8Hz 0.25s on, 1s off;

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- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz;
- 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
- 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz;
- 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz;
- 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz;
- 32) 2400 - 2850, 1Hz

CWSO-RR-YY

Conventional Sounder

166c/51

Notes: 1. Type A with CSR shallow back box, Type B with CWR deep back box
2. RR indicates red body

3. YY indicates mounting option.

Where S1 = shallow base (standard fix)

Where S2 = shallow base (first fix)

Where W1 = deep back box (standard fix)

Where W2 = deep back box (first fix)

4. Meets the requirements of EN54-3: 2001 for the following tones:

- 1) 554/440, 2Hz (100ms/400ms);
- 2) 800/970, 1Hz;
- 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz;
- 5) 2500/3100, 2Hz;
- 6) 988/645, 2Hz;
- 7) 660Hz;
- 8) 970Hz;
- 9) 1200Hz;
- 10) 2850Hz;
- 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off;
- 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz;
- 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
- 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz;
- 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz;
- 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz;
- 32) 2400 - 2850, 1Hz;

CWSO-WW-YY

Conventional Sounder

166c/52

Notes:

1. Type A with CSW shallow back box, Type B with CWW deep back box

2. WW indicates white body

3. YY indicates mounting option.

Where S1 = shallow base (standard fix)

Where S2 = shallow base (first fix)

Where W1 = deep back box (standard fix)

Where W2 = deep back box (first fix)

4. Meets the requirements of EN54-3: 2001 for the following tones:

- 1) 554/440, 2Hz (100ms/400ms);
- 2) 800/970, 1Hz;
- 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz;

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- 5) 2500/3100, 2Hz;
- 6) 988/645, 2Hz;
- 7) 660Hz;
- 8) 970Hz;
- 9) 1200Hz;
- 10) 2850Hz;
- 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off;
- 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz;
- 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
- 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz;
- 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz;
- 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz;
- 32) 2400 - 2850, 1Hz;

CWSS-RA-YY

Conventional Sounder Beacon

166c/53

Notes:

1. Type A with CSR shallow back box, Type B with CWR deep back box
2. The beacon function is not included in the scope of the approval
3. RA indicates red body / amber lens + red LED
4. YY indicates mounting option.

Where S7 = shallow base (standard fix)

Where S8 = shallow base (first fix)

Where W7 = deep back box (standard fix)

Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3: 2001 for the following tones:

- 1) 554/440, 2Hz (100ms/400ms);
- 2) 800/970, 1Hz;
- 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz;
- 5) 2500/3100, 2Hz;
- 6) 988/645, 2Hz;
- 7) 660Hz;
- 8) 970Hz;
- 9) 1200Hz;
- 10) 2850Hz;
- 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off;
- 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz;
- 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
- 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz;
- 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz;
- 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz;
- 32) 2400 - 2850, 1Hz;

CWSS-WA-YY

Conventional Sounder Beacon

166c/54

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Notes:

1. Type A with CSW shallow back box, Type B with CWW deep back box
2. The beacon function is not included in the scope of the approval
3. WA indicates white body / amber lens + red LED
4. YY indicates mounting option.

Where S7 = shallow base (standard fix)
Where S8 = shallow base (first fix)
Where W7 = deep back box (standard fix)
Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3: 2001 for the following tones:

- 1) 554/440, 2Hz (100ms/400ms);
- 2) 800/970, 1Hz;
- 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz;
- 5) 2500/3100, 2Hz;
- 6) 988/645, 2Hz;
- 7) 660Hz;
- 8) 970Hz;
- 9) 1200Hz;
- 10) 2850Hz;
- 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off;
- 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz;
- 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
- 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz;
- 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz;
- 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz;
- 32) 2400 - 2850, 1Hz;

CWSS-RB-YY

Conventional Sounder Beacon

166c/55

Notes:

1. Type A with CSR shallow back box, Type B with CWR deep back box
2. The beacon function is not included in the scope of the approval
3. RB indicates red body / red lens + red LED
4. YY indicates mounting option.

Where S7 = shallow base (standard fix)
Where S8 = shallow base (first fix)
Where W7 = deep back box (standard fix)
Where W8 = deep back box (first fix)

5. Meets the requirements of EN54-3: 2001 for the following tones:

- 1) 554/440, 2Hz (100ms/400ms);
- 2) 800/970, 1Hz;
- 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz;
- 5) 2500/3100, 2Hz;
- 6) 988/645, 2Hz;
- 7) 660Hz;
- 8) 970Hz;
- 9) 1200Hz;
- 10) 2850Hz;
- 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off;
- 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;

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	20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;	
CWSS-WB-YY	Conventional Sounder Beacon	166c/56

Notes:

1. Type A with CSW shallow back box, Type B with CWW deep back box
2. The beacon function is not included in the scope of the approval
3. WB indicates white body / red lens + red LED
4. YY indicates mounting option.
 - Where S7 = shallow base (standard fix)
 - Where S8 = shallow base (first fix)
 - Where W7 = deep back box (standard fix)
 - Where W8 = deep back box (first fix)
4. Meets the requirements of EN54-3: 2001 for the following tones:
 - 1) 554/440, 2Hz (100ms/400ms);
 - 2) 800/970, 1Hz;
 - 3) 800/970, 2Hz;
 - 4) 2400/2900, 3Hz;
 - 5) 2500/3100, 2Hz;
 - 6) 988/645, 2Hz;
 - 7) 660Hz;
 - 8) 970Hz;
 - 9) 1200Hz;
 - 10) 2850Hz;
 - 11) 2400Hz, alternating between frequencies 2400Hz, 3100Hz & 988Hz
 - 12) 420Hz, 0.625s on, 0.625 sec off;
 - 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
 - 14) 660, 3.33Hz, 150ms on, 150ms off;
 - 15) 970, 0.8Hz 0.25s on, 1s off;
 - 16) 970, 0.5Hz 1s on, 1s off;
 - 17) 2850, 1Hz;
 - 18) 970, 1Hz 500ms on, 500ms off;
 - 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
 - 20) 800Hz;
 - 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
 - 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
 - 23) 2400 - 2850, 7Hz;
 - 24) 500 - 1200Hz, (0.5s off, 3.5s on);
 - 25) 800 - 970, 50Hz;
 - 26) 800 - 970, 7Hz;
 - 27) 800 - 970, 1Hz;
 - 28) 2400 - 2850, 50Hz;
 - 29) 500 - 1000, 7Hz;
 - 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
 - 31) 800 - 1000, 2Hz;
 - 32) 2400 - 2850, 1Hz;

Bases:

B501AP	Mounting base - Low profile base IP21C
Bcc	Deep Back Box
Wcc	Waterproof Deep Back Box IP33C
CSW	19mm shallow back box - white IP21C
CSR	19mm shallow back box - red IP21C
CWW	45mm deep back box - white IP33C
CWR	45mm deep back box - red IP33C

PART 1: SECTION 7

ALARM WARNING DEVICES

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Certificate No: 1174c-(cl-7) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
KM-FC5200	Conventional Type A Sounder Strobe (KM-FC5101 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 01, 2400Hz - 2900Hz @ 3 Hz 2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 2. The strobe function is not included within the scope of this approval Bases KM-FC5201 Base KM-FA6201 Digital Sounder Base	1174c/01
KM-FA6200	Addressable Type A Indoor Digital Sounder Beacon (KM-FA6101 Base) Notes: 1. Meets the requirements of EN 54-3 and approved at the following tones: 1) Tone 00, 2400Hz - 2900Hz @ 3Hz 2) Tone 01, 2400Hz - 2900Hz @ 9Hz 3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off 4) Tone 14, 1500Hz - 2700Hz @ 3Hz 2. The beacon function is not included within the scope of this approval Bases KM-FC5201 Base KM-FA6201 Digital Sounder Base	1174c/02

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Certificate No: 546a-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificate No: 928w-(cl-4) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 928ah-(cl-4) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
200/FBRI/SOUW	Conventional indoor Type A sounder base Notes: 1. Also approved in Off-white, Ivory and Alternative white (-O, -I, and -A suffixes) 2. Meets the requirements of EN 54-3 at the following tone settings on low, medium and high volume settings: 1 - LF Sweep (Cranford sweep) (800-1000Hz @ 0.5 Sec) 3 - Alternative Warble (800-1000Hz @ 0.5 Sec) 11 - Dutch Sweep Tone (970Hz Cont) 25 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) 27 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) 3. Cover plate (Part No. 116-099) must be used.	546a/04
FI700/WBRI/MT/SOUW	Conventional Indoor Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings on low, medium and high volume settings: 1 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 3 - Slow Whoop (Dutch) (500-1200Hz for 3.5s on, 0.5s off) 4 - German DIN Tone (Sweep 1200-500Hz @ 1Hz)	546a/04

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
FI750/WBRI/MT/SOUW	<p>12 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) 23 - LF Sweep (800-1000Hz @ 0.5 Sec) 2. Cover Plate (white) - Part no. 116-125 Conventional Indoor Type A Sounder Base</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following sounder tone settings on low, medium and high volume settings: 1 - Warble Tone BS (800-1000Hz @ 0.5 Sec) 3 - Slow Whoop (Dutch) (500-1200Hz for 3.5s on, 0.5s off) 4 - German DIN Tone (Sweep 1200-500Hz @ 1Hz) 12 - French Tone AFNOR (554Hz 100ms and 440Hz for 400 ms) 23 - LF Sweep (800-1000Hz @ 0.5 Sec) 2. Cover Plate (white) - Part no. 116-125 Conventional Type A (indoor) Wall Sounder</p>	546a/04
CWS/SOUR	<p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) Altair Addressable Type A (indoor) Wall Sounder with Short Circuit Isolator</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. Device is only addressable when used in conjunction with FI750/M/SST <i>Ancillaries</i> <i>FI750/M/SST</i> <i>Addressable module with short circuit isolator</i></p>	928w/07
CWS/SOUR + FI750/M/SST	<p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. Device is only addressable when used in conjunction with FI750/M/SST <i>Ancillaries</i> <i>FI750/M/SST</i> <i>Addressable module with short circuit isolator</i></p>	928ah/01

Certificate No: 928y-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010
 Certificate No: 928z-(cl-4) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005 & EN 54-23: 2010

Visual & Audible Warning Devices

Certificated Products		LPCB Ref. No.
CWS/SOUR/STRC + FI750/M/SST	<p>Altair Addressable Type A (indoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator</p> <p>Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p> <p>2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p> <p>3. Device is only addressable when used in conjunction with FI750/M/SST <i>Ancillaries</i> <i>FI750/M/SST</i> <i>Addressable module with short circuit isolator</i></p>	928z/01

PART 1: SECTION 7

ALARM WARNING DEVICES

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Certificate No: 926r to EN 54-23:2010

Certificate No: 926u to EN 54-23:2010, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ML-2420	Maxlogic Type A Conventional Wall Beacon Notes: 1) Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category W-2.8-8.0 - Flash Rate 1Hz	926r/01
ML-1420	Maxlogic Type A Analogue Addressable System Wall Strobe Notes: 1) Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926r/02
ML-1420.SCI	Maxlogic Type A Analogue Addressable System Wall Strobe with Short Circuit Isolator Notes: 1. Type A for Indoor Use only 2) Meets the requirements of EN 54-23 for the following: - Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0) - Flash Rate 0.5Hz	926u/01

Certificate No: 926q to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 926t to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

		LPCB Ref. No.
ML-2410	Maxlogic Type A Conventional Wall Sounder Note: Meets the requirements of EN 54-3 at the following tones: 1 - Alternating 800-970Hz 2 - Continuous 970Hz 3 - Sweep 800-970Hz, 1000ms On 4 - Pulse 970 Hz, 1s On / 1s Off 5 - Sweep 800-970Hz, 140ms On 6 - Pulse 660Hz, 150ms On / 150ms Off 7 - Intermittent Sweep 500-1200Hz, 3.5s On / 0.5s Off 8 - Sweep 1200-500Hz, 1000ms On 9 - Pulse 970Hz, 450-500ms On / 450-550ms Off 10 - Sweep 2400-2900Hz, 330ms On 11 - Alternating 554-440Hz, 100ms On - 400ms On 12 - Alternating 800-1000Hz, 500ms On - 500ms On 13 - Sweep 800-1000Hz, 500ms On 14 - Alternating 990-650Hz, 250ms On - 250ms On 15 - Pulse 2810Hz, 500ms On / 500ms Off 16 - Continuous 660Hz 17 - Pulse 420Hz, 625ms On / 625ms Off 18 - Sweep 800-970Hz, 20ms On 19 - Sweep 2400-2850Hz, 20ms On 20 - Sweep 2400-2850Hz, 140ms On 21 - Sweep 2400-2850Hz, 1000ms On 22 - Continuous 2850Hz 23 - Sweep 150-1000Hz, 10s On / 4s Off 24 - Sweep 500-1000Hz, 143ms On 25 - Sweep 500-1200Hz, 1000ms Off 26 - Sweep 500-1200Hz, 100ms Off 27 - Alternating 400-1200Hz, 500ms On, 500ms Off 28 - Pulse 800Hz, 1s On / 1s Off 29 - Alternating 840-558Hz, 500ms On	926q/01

PART 1: SECTION 7
ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
ML-1410	<p>30 - Pulse 500Hz, 150ms On / 600ms On 31 - Alternating 510-610Hz, 250ms On - 250ms On 32 - Sweep 800-950Hz, 333ms On</p> <p>Maxlogic Type A Analogue Addressable System Sounder</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off 7 Sweep 500-1200Hz, 2500ms On / 500ms Off 8 Sweep 1200-500Hz, 1000ms On 9 Pulse 970Hz, 450-550ms On, 450-550ms Off 10 Sweep 2400-2900Hz, 250ms On 11 Alternating 554-440Hz, 100ms On - 400ms On 12 Alternating 800-1000Hz, 500ms On - 500ms On 13 Sweep 800-1000Hz, 440ms On 14 Alternating 990-650Hz, 250ms On - 250ms On 15 Pulse 2810Hz, 500ms On / 500ms Off 16 Continuous 660Hz 17 Pulse 420Hz, 625ms On / 625ms Off 18 Continuous 1200Hz 19 Continuous 800Hz 20 Sweep 2400-2850Hz, 200ms On 21 Sweep 2400-2850Hz, 880ms On 22 Continuous 2850Hz 23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 30 Pulse 500Hz, 580ms On / 144ms Off 31 Alternating 510-610Hz, 232ms On - 238ms On 32 Sweep 800-950Hz, 344ms On 	926q/02
ML-1410.SCI	<p>Maxlogic Type A Analogue Addressable System Sounder with Short Circuit Isolator</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Type A for Indoor Use only 2. Meets the requirements of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 Alternating 800-970Hz, 250 - 250ms On 2 Continuous 970Hz 3 Sweep 800-970Hz, 1000ms On 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF 5 Sweep 800-970Hz, 180ms On 6 Pulse 660HZ, 160ms On / 160ms Off 7 Sweep 500-1200Hz, 2500ms On / 500ms Off 8 Sweep 1200-500Hz, 1000ms On 9 Pulse 970Hz, 450-550ms On, 450-550ms Off 10 Sweep 2400-2900Hz, 250ms On 11 Alternating 554-440Hz, 100ms On - 400ms On 12 Alternating 800-1000Hz, 500ms On - 500ms On 13 Sweep 800-1000Hz, 440ms On 14 Alternating 990-650Hz, 250ms On - 250ms On 15 Pulse 2810Hz, 500ms On / 500ms Off 16 Continuous 660Hz 17 Pulse 420Hz, 625ms On / 625ms Off 18 Continuous 1200Hz 19 Continuous 800Hz 20 Sweep 2400-2850Hz, 200ms On 21 Sweep 2400-2850Hz, 880ms On 22 Continuous 2850Hz 23 Sweep 150-1000Hz, 1100ms On / 4000ms Off 24 Sweep 500-1000Hz, 190ms On 25 Sweep 500-1200Hz, 1000ms On / 850ms Off 26 Sweep 500-1200Hz, 450ms On 27 Alternating 400-1200Hz, 486ms On / 480ms Off 28 Pulse 800Hz, 938ms On / 996ms Off 29 Alternating 840-558Hz, 480ms On - 490ms On 	926t/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

- 30 Pulse 500Hz, 580ms On / 144ms Off
- 31 Alternating 510-610Hz, 232ms On - 238ms On
- 32 Sweep 800-950Hz, 344ms On

LPCB Ref.
No.

Certificate No: 926s to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-3:2010
Certificate No: 926v to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23:2010, EN 54-17:2005

Certificated Products

ML-2430

Maxlogic Type A Conventional Wall Sounder and Beacon

Notes:

1. Type A for Indoor Use only
2. Meets the requirements of EN 54-3 at the following tones:
 - 1 - Alternating 800-970Hz
 - 2 - Continuous 970Hz
 - 3 - Sweep 800-970Hz, 1000ms On
 - 4 - Pulse 970 Hz, 1s On / 1s Off
 - 5 - Sweep 800-970Hz, 140ms On
 - 6 - Pulse 660Hz, 150ms On / 150ms Off
 - 7 - Intermittent Sweep 500-1200Hz, 3.5s On / 0.5s Off
 - 8 - Sweep 1200-500Hz, 1000ms On
 - 9 - Pulse 970Hz, 450-500ms On / 450-550ms Off
 - 10 - Sweep 2400-2900Hz, 330ms On
 - 11 - Alternating 554-440Hz, 100ms On - 400ms On
 - 12 - Alternating 800-1000Hz, 500ms On - 500ms On
 - 13 - Sweep 800-1000Hz, 500ms On
 - 14 - Alternating 990-650Hz, 250ms On - 250ms On
 - 15 - Pulse 2810Hz, 500ms On / 500ms Off
 - 16 - Continuous 660Hz
 - 17 - Pulse 420Hz, 625ms On / 625ms Off
 - 18 - Sweep 800-970Hz, 20ms On
 - 19 - Sweep 2400-2850Hz, 20ms On
 - 20 - Sweep 2400-2850Hz, 140ms On
 - 21 - Sweep 2400-2850Hz, 1000ms On
 - 22 - Continuous 2850Hz
 - 23 - Sweep 150-1000Hz, 10s On / 4s Off
 - 24 - Sweep 500-1000Hz, 143ms On
 - 25 - Sweep 500-1200Hz, 1000ms Off
 - 26 - Sweep 500-1200Hz, 100ms Off
 - 27 - Alternating 400-1200Hz, 500ms On, 500ms Off
 - 28 - Pulse 800Hz, 1s On / 1s Off
 - 29 - Alternating 840-558Hz, 500ms On
 - 30 - Pulse 500Hz, 150ms On / 600ms On
 - 31 - Alternating 510-610Hz, 250ms On - 250ms On
 - 32 - Sweep 800-950Hz, 333ms On

3. Meets the requirements of EN 54-23 for the following:
 - Category W-2.4-8.0
 - Flash Rate 1Hz

LPCB Ref.
No.
926s/01

ML-1430

Maxlogic Type A Analogue Addressable System Wall Sounder & Strobe

Notes:

1. Type A for Indoor Use only
2. Meets the requirements of EN 54-3 at the following tones:
 - 1 Alternating 800-970Hz, 250 - 250ms On
 - 2 Continuous 970Hz
 - 3 Sweep 800-970Hz, 1000ms On
 - 4 Pulse 970 Hz, 1000ms ON / 1000ms OFF
 - 5 Sweep 800-970Hz, 180ms On
 - 6 Pulse 660Hz, 160ms On / 160ms Off
 - 7 Sweep 500-1200Hz, 2500ms On / 500ms Off
 - 8 Sweep 1200-500Hz, 1000ms On
 - 9 Pulse 970Hz, 450-550ms On, 450-550ms Off
 - 10 Sweep 2400-2900Hz, 250ms On
 - 11 Alternating 554-440Hz, 100ms On - 400ms On
 - 12 Alternating 800-1000Hz, 500ms On - 500ms On
 - 13 Sweep 800-1000Hz, 440ms On
 - 14 Alternating 990-650Hz, 250ms On - 250ms On
 - 15 Pulse 2810Hz, 500ms On / 500ms Off
 - 16 Continuous 660Hz
 - 17 Pulse 420Hz, 625ms On / 625ms Off

926s/02

Certificated ProductsLPCB Ref.
No.

	18 Continuous 1200Hz	
	19 Continuous 800Hz	
	20 Sweep 2400-2850Hz, 200ms On	
	21 Sweep 2400-2850Hz, 880ms On	
	22 Continuous 2850Hz	
	23 Sweep 150-1000Hz, 1100ms On / 4000ms Off	
	24 Sweep 500-1000Hz, 190ms On	
	25 Sweep 500-1200Hz, 1000ms On / 850ms Off	
	26 Sweep 500-1200Hz, 450ms On	
	27 Alternating 400-1200Hz, 486ms On / 480ms Off	
	28 Pulse 800Hz, 938ms On / 996ms Off	
	29 Alternating 840-558Hz, 480ms On - 490ms On	
	30 Pulse 500Hz, 580ms On / 144ms Off	
	31 Alternating 510-610Hz, 232ms On - 238ms On	
	32 Sweep 800-950Hz, 344ms On	
	3. Meets the requirements of EN 54-23 for the following:	
	- Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0)	
	- Flash Rate 0.5Hz	
ML-1430.SCI	Maxlogic Type A Analogue Addressable System Wall Sounder & Strobe with Short Circuit Isolator	926v/01
	Notes:	
	1. Type A for Indoor Use only	
	2. Meets the requirements of EN 54-3 at the following tones:	
	1 Alternating 800-970Hz, 250 - 250ms On	
	2 Continuous 970Hz	
	3 Sweep 800-970Hz, 1000ms On	
	4 Pulse 970 Hz, 1000ms ON / 1000ms OFF	
	5 Sweep 800-970Hz, 180ms On	
	6 Pulse 660HZ, 160ms On / 160ms Off	
	7 Sweep 500-1200Hz, 2500ms On / 500ms Off	
	8 Sweep 1200-500Hz, 1000ms On	
	9 Pulse 970Hz, 450-550ms On, 450-550ms Off	
	10 Sweep 2400-2900Hz, 250ms On	
	11 Alternating 554-440Hz, 100ms On - 400ms On	
	12 Alternating 800-1000Hz, 500ms On - 500ms On	
	13 Sweep 800-1000Hz, 440ms On	
	14 Alternating 990-650Hz, 250ms On - 250ms On	
	15 Pulse 2810Hz, 500ms On / 500ms Off	
	16 Continuous 660Hz	
	17 Pulse 420Hz, 625ms On / 625ms Off	
	18 Continuous 1200Hz	
	19 Continuous 800Hz	
	20 Sweep 2400-2850Hz, 200ms On	
	21 Sweep 2400-2850Hz, 880ms On	
	22 Continuous 2850Hz	
	23 Sweep 150-1000Hz, 1100ms On / 4000ms Off	
	24 Sweep 500-1000Hz, 190ms On	
	25 Sweep 500-1200Hz, 1000ms On / 850ms Off	
	26 Sweep 500-1200Hz, 450ms On	
	27 Alternating 400-1200Hz, 486ms On / 480ms Off	
	28 Pulse 800Hz, 938ms On / 996ms Off	
	29 Alternating 840-558Hz, 480ms On - 490ms On	
	30 Pulse 500Hz, 580ms On / 144ms Off	
	31 Alternating 510-610Hz, 232ms On - 238ms On	
	32 Sweep 800-950Hz, 344ms On	
	3. Meets the requirements of EN 54-23 for the following:	
	- Category Open Class O-1.4-2.0 (cuboid shape: 1.4-3.0.-2.0)	
	- Flash Rate 0.5Hz	

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Certificate No: 1448a to EN 54-3:2001 + A1:2002 + A2:2006

PART 1: SECTION 7

ALARM WARNING DEVICES

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
IS-S-02	Intrinsically Safe Fire Alarm Sounder Type B (Red) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404)	1448a/01
IS-S-02WH	Intrinsically Safe Fire Alarm Sounder Type B (White) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404)	1448a/01
IS-SB-02-XX	Intrinsically Safe Fire Alarm Sounder Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404) 2. XX indicates Beacon colour: 01 - Amber 02 - Red 03 - Blue 04 - Green 05 - White 3. The beacon function is not included within the scope of this approval.	1448a/02
IS-SB-02-XXWH	Intrinsically Safe Fire Alarm Sounder Beacon Type B (White) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 - 970Hz Continuous - Tone 2 - 800Hz/970Hz @ 2Hz - Tone 3 - 800Hz - 970Hz @ 1Hz - Tone 6 - 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 - 500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 - 1200Hz - 500Hz @ 1Hz (DIN 33 404) 2. XX indicates Beacon colour: 01 - Amber 02 - Red 03 - Blue 04 - Green 05 - White 3. The beacon function is not included within the scope of this approval.	1448a/02

Bases:

HSG6890SA Time Saver Base

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Certificate No: 166m-(cl-1) to EN 54-17: 2005 & EN 54-23: 2010

Certificated Products

		LPCB Ref. No.
MI-VAD-WC-I	Analogue Addressable High Output Beacon with Short Circuit Isolator (B501AP base) Notes: 1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for	166m/02

Certificated Products

LPCB Ref.
No.

- the following categories (light pattern details):
- Category C: C-3-5.1, C-6-5.1, C-9-5.1
 - Category W: W-2.4-2.76
 - Flash rate 0.5Hz
 - Synchronization
2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW

Ancillaries

B501AP Mounting base - Low profile base IP21C
WPW Deep back box for outdoor (White)
WRR Deep back box for outdoor (Red)

Morley-IAS by Honeywell, Pittway Tecnologica Srl

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Certificate No: 166h-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 166j-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005
Certificate No: 166m-(cl-1) to EN 54-17:2005 & EN 54-23:2010
Certificate No: 166t-(cl-1) to EN 54-23:2010
Certificate No: 166p-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010
Certificate No: 166r-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-23:2010
Certificate No: 166s-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010

Audible Warning Devices

Certificated Products

LPCB Ref.
No.

MI-WSO-xx-N

Analogue addressable Type A/B wall mounted sounder
(B501AP-cc, Bcc bases, and Wcc bases)

166h/01

Notes:

1. **xx** indicates body colour. **PR** =Red, **PP** =Pure White
2. **yy** indicates customer and associated communication protocol.
01 indicates Advanced Protocol (and Honeywell 500 series protocol)
00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:

- 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;
- 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Approved as Type B only when used with Wcc base.

MI-WSS-xx-N

Analogue addressable Type A/B wall mounted sounder/strobe
(B501AP-cc, Bcc, and Wcc bases)

166h/02

Notes:

1. **xx** indicates body/lens colour. **PR** =Red/Red, **PA** =Amber/Amber, **PC** =Clear/Clear
2. **yy** indicates customer and associated communication protocol.

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ALARM WARNING DEVICES

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	<p>01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)</p> <p>3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Certification excludes the strobe function.</p> <p>5. Approved as Type B only when used with Wcc base.</p>	
MI-BSO-xx-N	<p>Analogue addressable Type A integrated detector base sounder (B501AP-cc, Bcc and Wcc bases)</p> <p>Notes:</p> <p>1. xx indicates body colour. PP =Pure White, DD =Detector White</p> <p>2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)</p> <p>3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p>	166h/03
MI-BSS-xx-N	<p>Analogue addressable Type A integrated detector base sounder/strobe (B501AP-cc, Bcc and Wcc bases)</p> <p>Notes:</p> <p>1. xx indicates body/lens colour. PR =Pure White/Red, PA =Pure White/Amber, PC =Pure White/Clear, DR =Detector White/Red, DA =Detector White/Amber, DC =Detector White/Clear</p> <p>2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)</p> <p>3. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;</p>	166h/04

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	<p>16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Certification excludes the strobe function.</p>	
MI-WSO-xx-I	<p>Analogue addressable Type A/B wall mounted sounder with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)</p> <p>Notes:</p> <p>1. xx indicates body colour. PR =Red, PP =Pure White 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Approved as Type B only when used with Wcc base.</p>	166j/01
MI-WSS-xx-I	<p>Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)</p> <p>Notes:</p> <p>1. xx indicates body/lens colour. PR =Red/Red, PA =Amber/Amber, PC =Clear/Clear 2. yy indicates customer and associated communication protocol. 01 indicates Advanced Protocol (and Honeywell 500 series protocol) 00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol) 3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Certification excludes the strobe function. 5. Approved as Type B only when used with Wcc base.</p>	166j/02
MI-BSO-xx-I	<p>Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases)</p>	166j/03

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

Notes:

1. **xx** indicates body colour. **PP** =Pure White, **DD** =Detector White
2. **yy** indicates customer and associated communication protocol.
01 indicates Advanced Protocol (and Honeywell 500 series protocol)
00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

- 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;
- 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;

MI-BSS-xx-I

Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases)

166j/04

Notes:

1. **xx** indicates body/lens colour. **PR** =Pure White/Red, **PA** =Pure White/Amber, **PC** =Pure White/Clear, **DR** =Detector White/Red, **DA** =Detector White/Amber, **DC** =Detector White/Clear
2. **yy** indicates customer and associated communication protocol.
01 indicates Advanced Protocol (and Honeywell 500 series protocol)
00 and 02-99 indicates Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

- 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;
- 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz;

4. Certification excludes the strobe function.

MI-WST-PC-I

Analogue addressable wall mounted LED strobe with short circuit isolator (B501AP base)

166m/01

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz
- Synchronization

MI-WST-PC-N

2. Type A with Bcc deep back box, Type B with Wcc deep back box
Analogue addressable wall mounted LED strobe (B501AP base)

166t/01

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O: O-2.4-2 - Flash rate 1Hz
- Synchronization
2. Type A with Bcc deep back box, Type B with Wcc deep back box

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MI-WSS-PC-I	<p>Analogue addressable wall mounted sounder / LED strobe with short circuit isolator (B501AP base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): <ul style="list-style-type: none"> - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: <ol style="list-style-type: none"> 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz 	166r/01
MI-DSS-PC-I	<p>Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): <ul style="list-style-type: none"> - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and Honeywell 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones: <ol style="list-style-type: none"> 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 	166r/02

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	<p>16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p>	
MI-WSS-PC-N	<p>Analogue Addressable Wall Mounted Sounder / LED Strobe(B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Type A with Bcc deep back box, Type B with Wcc deep back box 4. Meets the requirements of EN54-3: 2001 at the following tones: 1) Alternating 525/440, 2Hz (100ms/400ms); 2) Alternating 800/922, 1Hz; 3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz.</p>	166s/01
MI-DSS-PC-N	<p>Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base) Notes: 1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O - Open Class - Flash rate 1Hz - Synchronization 2. PC=Pure White/Clear indicates body/lens colour. 3. Advanced Protocol (and Honeywell 500 series protocol) 4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:</p>	166s/02

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- 1) 554/440, 2Hz (100ms/400ms);
- 2) 800/970, 1Hz;
- 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz;
- 5) 2500/3100, 2Hz;
- 6) 988/645, 2Hz;
- 7) 660Hz;
- 8) 970Hz;
- 9) 1200Hz;
- 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec on, 3.75 sec off;
- 14) 660, 3.33Hz, 150ms on, 150ms off;
- 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off;
- 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz;
- 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;
- 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz;
- 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz;
- 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz;
- 32) 2400 - 2850, 1Hz.

MI-VAD-WC-N

Analogue Addressable High Output Beacon (B501AP base)

166t/02

Notes:

1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):

- Category C: C-3-5.1, C-6-5.1, C-9-5.1
- Category W: W-2.4-2.76
- Flash rate 0.5Hz
- Synchronization

2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW

MI-BGL-xC-I

Addressable Type A Detector Base Strobe

166m/03

Notes:

1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category rating C-3-8.5
- Synchronization
- Flash rate 0.5Hz
- Red LED
- Clear lens

2. x indicates body colour. D=Detector White, P=Pure White

MI-BRH-xC-I

Addressable Type A Detector Base Sounder Strobe

166r/03

Notes:

1. x indicates body colour. D = Detector White, P=Pure White

2. Meets the requirements of EN 54-3:2001 for the following tones:

- Tone 1 - Alternating 525 / 440Hz in 100ms/400ms
- Tone 2 - Alternating 800 / 922Hz for 1Hz
- Tone 3 - Alternating 800 / 922Hz for 2Hz
- Tone 4 - Alternating 2400 / 2900Hz for 3Hz
- Tone 5 - Alternating 2500 / 3100Hz for 2Hz
- Tone 6 - Alternating 988 / 645Hz for 2Hz
- Tone 7 - Continuous 630Hz
- Tone 8 - Continuous 922Hz
- Tone 9 - Continuous 1200Hz
- Tone 10 - Continuous 2810Hz
- Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,
Hold 100Hz for 40s
Falling from 100Hz to 500Hz in 10s,
Hold 500Hz for 20s
- Tone 12 - Intermittent 420Hz for 150ms on, 150ms off
- Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off
- Tone 14 - Intermittent 630Hz for 150ms on, 150ms off

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Tone 15 - Intermittent 922Hz for 0.25s on, 1s off
Tone 16 - Intermittent 922Hz for 1s on, 1s off
Tone 17 - Intermittent 2810Hz for 1Hz
Tone 18 - Intermittent 922Hz for 500ms on, 500ms off
Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off
Tone 20 - Continuous 800Hz
Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off.
Repeat 3 times then 1.5s off
Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off
Tone 23 - Sweep 2400-2850Hz for 7Hz
Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.5s, then 3.5s off
Tone 25 - Sweep 800-970Hz for 50Hz
Tone 26 - Sweep 800-970Hz for 7Hz
Tone 27 - Sweep 800-970Hz for 1Hz
Tone 28 - Sweep 2400-2850Hz for 50Hz
Tone 29 - Sweep 500-1000Hz for 7Hz
Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,
Hold 1200Hz for 4s
Falling from 1200Hz to 500Hz in 1s
Tone 31 - Sweep 800-1000Hz for 2Hz
Tone 32 - Sweep 2400-2850Hz for 1Hz

3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings High C-3-15 & O-1-4
- Synchronization
- Flash rate 0.5Hz & 1Hz
- Red LED
- Clear lens

MI-BRS-xC-I

Addressable Type A Detector Base Sounder Strobe

166r/04

Notes:

1. x indicates body colour. D = Detector White, P=Pure White

2. Meets the requirements of EN 54-3:2001 for the following tones:

Tone 1 - Alternating 525 / 440Hz in 100ms/400ms
Tone 2 - Alternating 800 / 922Hz for 1Hz
Tone 3 - Alternating 800 / 922Hz for 2Hz
Tone 4 - Alternating 2400 / 2900Hz for 3Hz
Tone 5 - Alternating 2500 / 3100Hz for 2Hz
Tone 6 - Alternating 988 / 645Hz for 2Hz
Tone 7 - Continuous 630Hz
Tone 8 - Continuous 922Hz
Tone 9 - Continuous 1200Hz
Tone 10 - Continuous 2810Hz
Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,
Hold 100Hz for 40s
Falling from 100Hz to 500Hz in 10s,
Hold 500Hz for 20s
Tone 12 - Intermittent 420Hz for 150ms on, 150ms off
Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off
Tone 14 - Intermittent 630Hz for 150ms on, 150ms off
Tone 15 - Intermittent 922Hz for 0.25s on, 1s off
Tone 16 - Intermittent 922Hz for 1s on, 1s off
Tone 17 - Intermittent 2810Hz for 1Hz
Tone 18 - Intermittent 922Hz for 500ms on, 500ms off
Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off
Tone 20 - Continuous 800Hz
Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off.
Repeat 3 times then 1.5s off
Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off
Tone 23 - Sweep 2400-2850Hz for 7Hz
Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.5s, then 3.5s off
Tone 25 - Sweep 800-970Hz for 50Hz
Tone 26 - Sweep 800-970Hz for 7Hz
Tone 27 - Sweep 800-970Hz for 1Hz
Tone 28 - Sweep 2400-2850Hz for 50Hz
Tone 29 - Sweep 500-1000Hz for 7Hz
Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,
Hold 1200Hz for 4s
Falling from 1200Hz to 500Hz in 1s
Tone 31 - Sweep 800-1000Hz for 2Hz
Tone 32 - Sweep 2400-2850Hz for 1Hz

3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:

- Category ratings C-3-8.5 & O-1-3
- Synchronization

Certificated Products

- Flash rate 0.5Hz & 1Hz
- Red LED
- Clear lens

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No.

Bases

B501AP-cc Low profile base IP21C, cc indicates colour, Blank=Pure White, IV=Detector White
Bcc Deep base IP44, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
Wcc Waterproof base IP65, cc indicates colour, RR=Red, DD=Detector White, PW=Pure White
B501AP Mounting Base - Low Profile Base IP21C
Bcc Deep Back Box
Wcc Waterproof Deep Back Box IP33C

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Certificate No: 1330d-(cl-3) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

MX300 Addressable Sounder Strobe (MX300 Base)

LPCB Ref.
No.
1330d/01

Bases

MX300 Sounder Base

Notes:

1. Approved to Type A Indoor use only.
2. Meets the requirements of EN 54-3:2001 at the following tones:
 - Tone 14, 2400 Hz – 2900 Hz @ 3Hz
 - Tone 16, 500Hz – 1200Hz, 3.5s on/0.25s off
 - Tone 17, 800Hz, 1s off/1s on
3. The strobe function is not approved to EN 54-23

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Certificate No: 166c to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 166r-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005 & EN 54-23:2010

Certificate No: 166t-(cl-3) to EN54-23: 2010

Certificate No: 166j-(cl-2) to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005

Certificate No: 166m-(cl-3) to EN 54-17:2005 & EN 54-23: 2010

Certificate No: 166s-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-23:2010

Audible Warning Devices

Certificated Products

NBS3D 4 Tone Type A conventional ceiling mounting sounder, white

LPCB Ref.
No.
166c/40

Note:

Meets the requirements of EN 54-3 at all output levels, and voltage ranges of 10-14 VDC and 19.5-28 VDC for the following tones:

- 1 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence
- 2 - 800Hz continuous
- 3 - 500Hz-1200Hz slow whoop

- 4 - Falling 1200Hz-500Hz over 3.5s followed by 0.5s silence

NFXI-WS-z Analogue addressable Type A/B wall mounted sounder with short circuit isolator

166j/01

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Certificated Products

LPCB Ref.
No.

(B501AP-cc, Bcc bases, and Wcc bases)

Notes:

1. **z** indicates body colour. **R** =Red, **W** =Pure White
2. Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

- 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;
- 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec

on;

- 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Approved as Type B only when used with Wcc base.

NFXI-WSF-zz

Analogue addressable Type A/B wall mounted sounder/strobe with short circuit isolator (B501AP-cc, Bcc bases, and Wcc bases)

166j/02

Notes:

1. **zz** indicates body/lens colour. **RR** =Red/Red, **WC** =Clear/Clear
2. Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

- 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;
- 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off;
- 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;
- 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);
- 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz;
- 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz;
- 29) 500 - 1000, 7Hz;
- 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;
- 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.

4. Certification excludes the strobe function.

5. Approved as Type B only when used with Wcc base.

NFXI-BS-zz

Analogue addressable Type A integrated detector base sounder with short circuit isolator (B501AP-cc, Bcc and Wcc bases)

166j/03

Notes:

1. **zz** indicates body colour. **W** =Pure White, **IV** =Detector White
2. Advanced Protocol (and System Sensor 500 series protocol)
3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:

- 1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz;
- 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz;
- 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz;
- 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;
- 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec

on;

- 14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off;
- 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz;
- 18) 970, 1Hz 500ms on, 500ms off;
- 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;
- 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;
- 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz;
- 24) 500 - 1200Hz, (0.5s off, 3.5s on);

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Certificated Products	LPCB Ref. No.
<p style="text-align: center;">25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>NFXI-BSF-zzz</p>	<p>Analogue addressable Type A integrated detector base sounder/strobe with short circuit isolator (B501AP-cc, Bcc and Wcc bases)</p> <p>Notes:</p> <p>1. zzz indicates body/lens colour. WC =Pure White/Clear, IVC =Detector White/Clear</p> <p>2. Advanced Protocol (and System Sensor 500 series protocol)</p> <p>3. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:</p> <p>1) 554/440, 2Hz (100ms/400ms); 2) 800/970, 1Hz; 3) 800/970, 2Hz; 4) 2400/2900, 3Hz; 5) 2500/3100, 2Hz; 6) 988/645, 2Hz; 7) 660Hz; 8) 970Hz; 9) 1200Hz; 10) 2850Hz; 11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) 420Hz, 0.625s on, 0.625 sec off; 13) 500-1200Hz, 0.25 sec off, 3.75 sec on;</p> <p>14) 660, 3.33Hz, 150ms on, 150ms off; 15) 970, 0.8Hz 0.25s on, 1s off; 16) 970, 0.5Hz 1s on, 1s off; 17) 2850, 1Hz; 18) 970, 1Hz 500ms on, 500ms off; 19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) 800Hz; 21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) 2400 - 2850, 7Hz; 24) 500 - 1200Hz, (0.5s off, 3.5s on); 25) 800 - 970, 50Hz; 26) 800 - 970, 7Hz; 27) 800 - 970, 1Hz; 28) 2400 - 2850, 50Hz; 29) 500 - 1000, 7Hz; 30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz.</p> <p>4. Certification excludes the strobe function.</p> <p>166j/04</p>
<p>NFXI-WF-WC</p>	<p>addressable wall mounted LED strobe with short circuit isolator (B501AP base)</p> <p>Note:</p> <p>1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details): - Category O-2.4-2 - Flash rate 1Hz</p> <p>- Synchronization</p> <p>2. Type A with Bcc deep back box, Type B with Wcc deep back box</p> <p>166m/01</p>
<p>NFXI-WCF-WC</p>	<p>Analogue Addressable High Output Beacon with Short Circuit Isolator (B501AP base)</p> <p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):</p> <p>- Category C: C-3-5.1, C-6-5.1, C-9-5.1</p> <p>- Category W: W-2.4-2.76</p> <p>- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW</p> <p>166m/02</p>
<p>NFX-WCF-WC</p>	<p>Analogue Addressable High Output Beacon (B501AP base)</p> <p>Notes:</p> <p>1. The ceiling / wall mounted VAD meets the requirements of EN 54-23: 2010 for the following categories (light pattern details):</p> <p>- Category C: C-3-5.1, C-6-5.1, C-9-5.1</p> <p>- Category W: W-2.4-2.76</p> <p>- Flash rate 0.5Hz</p> <p>- Synchronization</p> <p>2. Type A indoor use with B501AP only, Type B outdoor use with B501AP and WRR or WPW</p> <p>166t/02</p>
<p>NFXI-WSF-WC</p>	<p>Analogue Addressable Wall Mounted Sounder / LED Strobe with Short Circuit Isolator (B501AP base)</p> <p>Notes:</p> <p>1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):</p> <p>- Category O - Open Class</p> <p>- Flash rate 1Hz</p> <p>- Synchronization</p> <p>2. WC=Pure White/Clear indicates body/lens colour.</p> <p>3. Type A with Bcc deep back box, Type B with Wcc deep back box</p> <p>4. Meets the requirements of EN54-3: 2001 at the following tones:</p> <p>1) Alternating 525/440, 2Hz (100ms/400ms);</p> <p>2) Alternating 800/922, 1Hz;</p> <p>166r/01</p>

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NFXI-DSF-WC	<p>3) Alternating 800/922, 2Hz; 4) Alternating 2400/2900, 3Hz; 5) Alternating 2500/3100, 2Hz; 6) Alternating 988/645, 2Hz; 7) Continuous 630Hz; 8) Continuous 922Hz; 9) Continuous 1200Hz; 10) Continuous 2810Hz; 11) Sweep 150-1000Hz, rise 10s, stable 40s, fall 10s, stable 20s, then repeating; 12) Intermittent 420Hz, 0.625s on, 0.625 sec off; 13) Sweep 500-1200Hz, 0.25 sec off, 3.75 sec on; 14) Intermittent 630, 3.33Hz, 150ms on, 150ms off; 15) Intermittent 922, 0.8Hz 0.25s on, 1s off; 16) Intermittent 922, 0.5Hz 1s on, 1s off; 17) Intermittent 2810, 1Hz; 18) Intermittent 922, 1Hz 500ms on, 500ms off; 19) Intermittent 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off; 20) Continuous 800Hz; 21) Sweep 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off; 22) Sweep 1200 - 500Hz, 0.99Hz 1s on, 0.01s off; 23) Sweep 2400 - 2850, 7Hz; 24) Sweep 500 - 1200Hz, (0.5s off, 3.5s on); 25) Sweep 800 - 970, 50Hz; 26) Sweep 800 - 970, 7Hz; 27) Sweep 800 - 970, 1Hz; 28) Sweep 2400 - 2850, 50Hz; 29) Sweep 500 - 1000, 7Hz; 30) Sweep 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) Sweep 800 - 1000, 2Hz; 32) Sweep 2400 - 2850, 1Hz</p> <p>Analogue Addressable Type A Integrated Detector Base Sounder/Beacon with Short Circuit Isolator (B501AP base)</p>	166r/02
	<p>Notes:</p> <ol style="list-style-type: none">1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):<ul style="list-style-type: none">- Category O - Open Class- Flash rate 1Hz- Synchronization2. WC=Pure White/Clear indicates body/lens colour.3. Advanced Protocol (and System Sensor 500 series protocol)4. Meets the requirements of EN54-3 for all output levels at voltage range 15-29VDC and tones:<ol style="list-style-type: none">1) 554/440, 2Hz (100ms/400ms);2) 800/970, 1Hz;3) 800/970, 2Hz;4) 2400/2900, 3Hz;5) 2500/3100, 2Hz;6) 988/645, 2Hz;7) 660Hz;8) 970Hz;9) 1200Hz;10) 2850Hz;11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;12) 420Hz, 0.625s on, 0.625 sec off;13) 500-1200Hz, 0.25 sec off, 3.75 sec on;14) 660, 3.33Hz, 150ms on, 150ms off;15) 970, 0.8Hz 0.25s on, 1s off;16) 970, 0.5Hz 1s on, 1s off;17) 2850, 1Hz;18) 970, 1Hz 500ms on, 500ms off;19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;20) 800Hz;21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;23) 2400 - 2850, 7Hz;24) 500 - 1200Hz, (0.5s off, 3.5s on);25) 800 - 970, 50Hz;26) 800 - 970, 7Hz;27) 800 - 970, 1Hz;28) 2400 - 2850, 50Hz;29) 500 - 1000, 7Hz;	

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Certificated Products	LPCB Ref. No.
<p>30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s; 31) 800 - 1000, 2Hz; 32) 2400 - 2850, 1Hz</p> <p>NFX-DSF-WC</p> <p>Analogue Addressable Type A Integrated Detector Base Sounder/Beacon (B501AP base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following category (light pattern details):<ul style="list-style-type: none">- Category O - Open Class- Flash rate 1Hz- Synchronization2. PC=Pure White/Clear indicates body/lens colour.3. Advanced Protocol (and System Sensor 500 series protocol)4. Meets the requirements of EN54-3 for all output levels at voltage range 15-32VDC and tones:<ol style="list-style-type: none">1) 554/440, 2Hz (100ms/400ms);2) 800/970, 1Hz;3) 800/970, 2Hz;4) 2400/2900, 3Hz;5) 2500/3100, 2Hz;6) 988/645, 2Hz;7) 660Hz;8) 970Hz;9) 1200Hz;10) 2850Hz;11) 150-1000, rise 10s, stable 40s, fall 10s, stable 20s, then repeating;12) 420Hz, 0.625s on, 0.625 sec off;13) 500-1200Hz, 0.25 sec off, 3.75 sec on;14) 660, 3.33Hz, 150ms on, 150ms off;15) 970, 0.8Hz 0.25s on, 1s off;16) 970, 0.5Hz 1s on, 1s off;17) 2850, 1Hz;18) 970, 1Hz 500ms on, 500ms off;19) 950, 0.22Hz (0.5s on, 0.5s off) x 3, 1.5s off;20) 800Hz;21) 400-1200Hz, (0.5s on, 0.5s off) x 3, 1.5s off;22) 1200 - 500Hz, 0.99Hz 1s on, 0.01s off;23) 2400 - 2850, 7Hz;24) 500 - 1200Hz, (0.5s off, 3.5s on);25) 800 - 970, 50Hz;26) 800 - 970, 7Hz;27) 800 - 970, 1Hz;28) 2400 - 2850, 50Hz;29) 500 - 1000, 7Hz;30) 500 - 1200 - 500, 0.166Hz rise 1s, stable 4s, fall 1s;31) 800 - 1000, 2Hz;32) 2400 - 2850, 1Hz	166s/02
<p>NFXI-BF-xCS</p> <p>Addressable Type A Detector Base Strobe</p> <p>Notes:</p> <ol style="list-style-type: none">1. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:<ul style="list-style-type: none">- Category rating C-3-8.5- Synchronization- Flash rate 0.5Hz & 1Hz- Red LED- Clear lens2. x indicates body colour. D=Detector White, P=Pure White	166m/03
<p>NFXI-BSF-xCH</p> <p>Addressable Type A Detector Base Sounder Strobe</p> <p>Notes:</p> <ol style="list-style-type: none">1. x indicates body colour. D = Detector White, P=Pure White2. Meets the requirements of EN 54-3:2001 for the following tones:<ul style="list-style-type: none">Tone 1 - Alternating 525 / 440Hz in 100ms/400msTone 2 - Alternating 800 / 922Hz for 1HzTone 3 - Alternating 800 / 922Hz for 2HzTone 4 - Alternating 2400 / 2900Hz for 3HzTone 5 - Alternating 2500 / 3100Hz for 2HzTone 6 - Alternating 988 / 645Hz for 2HzTone 7 - Continuous 630HzTone 8 - Continuous 922HzTone 9 - Continuous 1200HzTone 10 - Continuous 2810HzTone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s, Hold 100Hz for 40s	166r/03

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ALARM WARNING DEVICES

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No.

Falling from 100Hz to 500Hz in 10s,
Hold 500Hz for 20s
Tone 12 - Intermittent 420Hz for 150ms on, 150ms off
Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off
Tone 14 - Intermittent 630Hz for 150ms on, 150ms off
Tone 15 - Intermittent 922Hz for 0.25s on, 1s off
Tone 16 - Intermittent 922Hz for 1s on, 1s off
Tone 17 - Intermittent 2810Hz for 1Hz
Tone 18 - Intermittent 922Hz for 500ms on, 500ms off
Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off
Tone 20 - Continuous 800Hz
Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off.
Repeat 3 times then 1.5s off
Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off
Tone 23 - Sweep 2400-2850Hz for 7Hz
Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.5s, then 3.5s off
Tone 25 - Sweep 800-970Hz for 50Hz
Tone 26 - Sweep 800-970Hz for 7Hz
Tone 27 - Sweep 800-970Hz for 1Hz
Tone 28 - Sweep 2400-2850Hz for 50Hz
Tone 29 - Sweep 500-1000Hz for 7Hz
Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,
Hold 1200Hz for 4s
Falling from 1200Hz to 500Hz in 1s
Tone 31 - Sweep 800-1000Hz for 2Hz
Tone 32 - Sweep 2400-2850Hz for 1Hz
3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:
- Category ratings High C-3-15 & O-1-4
- Synchronization
- Flash rate 0.5Hz & 1Hz
- Red LED
- Clear lens

NFXI-BSF-xCS

Addressable Type A Detector Base Sounder Strobe

166r/04

Notes:

1. x indicates body colour. Detector White, P=Pure White
2. Meets the requirements of EN 54-3:2001 for the following tones:
Tone 1 - Alternating 525 / 440Hz in 100ms/400ms
Tone 2 - Alternating 800 / 922Hz for 1Hz
Tone 3 - Alternating 800 / 922Hz for 2Hz
Tone 4 - Alternating 2400 / 2900Hz for 3Hz
Tone 5 - Alternating 2500 / 3100Hz for 2Hz
Tone 6 - Alternating 988 / 645Hz for 2Hz
Tone 7 - Continuous 630Hz
Tone 8 - Continuous 922Hz
Tone 9 - Continuous 1200Hz
Tone 10 - Continuous 2810Hz
Tone 11 - Sweep 150-1000-500Hz Rising from 500Hz to 1000Hz in 10s,
Hold 100Hz for 40s
Falling from 100Hz to 500Hz in 10s,
Hold 500Hz for 20s
Tone 12 - Intermittent 420Hz for 150ms on, 150ms off
Tone 13 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.25s, then 3.75s off
Tone 14 - Intermittent 630Hz for 150ms on, 150ms off
Tone 15 - Intermittent 922Hz for 0.25s on, 1s off
Tone 16 - Intermittent 922Hz for 1s on, 1s off
Tone 17 - Intermittent 2810Hz for 1Hz
Tone 18 - Intermittent 922Hz for 500ms on, 500ms off
Tone 19 - Intermittent 950Hz for 500ms on, 500ms off. Repeat 3 times then 1.5s off
Tone 20 - Continuous 800Hz
Tone 21 - Sweep 400-1200Hz Rising from 400Hz to 1200Hz in 500ms, then 500ms off.
Repeat 3 times then 1.5s off
Tone 22 - Sweep 1200-500Hz Falling from 1200Hz to 500Hz in 1000ms, 10ms off
Tone 23 - Sweep 2400-2850Hz for 7Hz
Tone 24 - Sweep 500-1200Hz Rising from 500Hz to 1200Hz in 0.5s, then 3.5s off
Tone 25 - Sweep 800-970Hz for 50Hz
Tone 26 - Sweep 800-970Hz for 7Hz
Tone 27 - Sweep 800-970Hz for 1Hz
Tone 28 - Sweep 2400-2850Hz for 50Hz
Tone 29 - Sweep 500-1000Hz for 7Hz
Tone 30 - Sweep 500-1200-500Hz Rising from 500Hz to 1200Hz in 1s,
Hold 1200Hz for 4s
Falling from 1200Hz to 500Hz in 1s

Certificated Products

LPCB Ref. No.

- Tone 31 - Sweep 800-1000Hz for 2Hz
- Tone 32 - Sweep 2400-2850Hz for 1Hz
- 3. The Ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category ratings C-3-8.5 & O-1-3
 - Synchronization
 - Flash rate 0.5Hz & 1Hz
 - Red LED
 - Clear lens

Ancillaries

B501AP Mounting base - Low profile base IP21C
WPW Deep back box for outdoor (White)
WRR Deep back box for outdoor (Red)

Orient Corporation Pte. Ltd.

Block 3018, Bedok North Street 5, #05-51, Eastlink Light Industrial Building 486132, Singapore
Tel: (+65) 6242 5489 • Fax: (+65) 6241 2291
E-mail: corporate@orientcorp.net

Certificate No: 506e-(cl-6) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

LPCB Ref. No.

OCI 60039	Conventional fire alarm bell	506e/01
OCI 60040-S	Conventional Type B electronic sounder (OCI 60040-B base) <i>Note:</i> 1. Meets the requirements of EN54-3: 2001 at the following tones: 1. Alternating tones 800/970Hz at 2Hz 2. Sweeping 800/970Hz at 7Hz	506e/02
OCI 60040-BS	Conventional Type B electronic sounder beacon (OCI 60040-B base) <i>Note:</i> 1. Meets the requirements of EN54-3: 2001 at the following tones: 1. Alternating tones 800/970Hz at 2Hz 2. Sweeping 800/970Hz at 7Hz 2. The beacon functionality is not included within the scope of approval	506e/03

Base

OCI 60040-B Base

PT.Servvo Fire Indonesia

Pusat Niaga Roxy Mas Blok D5/17,, Jl.K.H. Hasyim Ashari Blok 125, Cideng, Gambir, Jakarta Pusat, DKI Jakarta Raya 10150, Indonesia
Tel: +62216330330
E-mail: info@servvo.com Info@servvo.co.id • Website: www.servvo.com or www.servvo.co.id

Certificate No: 1426a-(cl-5) to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-23: 2010

Certificated Products

LPCB Ref. No.

SSS 337	Addressable Sounder Beacon (DZ-9091 Base) <i>Notes:</i> 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/02
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PART 1: SECTION 7

ALARM WARNING DEVICES

Base
DZ-9091

Ravel Electronics Ltd

Unit 11, Chancel Industrial Estate, Newhall Street, Willenhall WV13 1NX, United Kingdom

Tel: 0845 835 8855

E-mail: exportsales@ravelfire.co.uk

Certificate No: 506e-(cl-7) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Alarm Warning Devices

Certificated Products

		LPCB Ref. No.
RE-736B	Conventional fire alarm bell	506e/01
ZE-736B	Conventional fire alarm bell	506e/01
RE-736S	Conventional Type B electronic sounder (RE-736SB base)	506e/02
	<i>Note:</i>	
	1. <i>Meets the requirements of EN54-3: 2001 at the following tones:</i>	
	1. <i>Alternating tones 800/970Hz at 2Hz</i>	
	2. <i>Sweeping 800/970Hz at 7Hz</i>	
ZE-736S	Conventional Type B electronic sounder (ZE-736SB base)	506e/02
	<i>Note:</i>	
	1. <i>Meets the requirements of EN54-3: 2001 at the following tones:</i>	
	1. <i>Alternating tones 800/970Hz at 2Hz</i>	
	2. <i>Sweeping 800/970Hz at 7Hz</i>	
RE-736SS	Conventional Type B electronic sounder beacon (RE-736SB base)	506e/03
	1. <i>Meets the requirements of EN54-3: 2001 at the following tones:</i>	
	1. <i>Alternating tones 800/970Hz at 2Hz</i>	
	2. <i>Sweeping 800/970Hz at 7Hz</i>	
	2. <i>The beacon functionality is not included within the scope of approval</i>	
ZE-736SS	Conventional Type B electronic sounder beacon (ZE-736SB base)	506e/03
	1. <i>Meets the requirements of EN54-3: 2001 at the following tones:</i>	
	1. <i>Alternating tones 800/970Hz at 2Hz</i>	
	2. <i>Sweeping 800/970Hz at 7Hz</i>	
	2. <i>The beacon functionality is not included within the scope of approval</i>	

Shenzhen Fanhai Sanjiang Electronics CO., Ltd

3/F., Guangcai Xintiandi Mansion, Nanshan Road, Nanshan District, Shenzhen, Guangdong 518054, China

Tel: +86 755 26521071

E-mail: shuxian.wei@fhsjdz.com

Certificate No: 1426j-(cl-1) to EN 54-3: 2014 + A1: 2019

Certificated Products

		LPCB Ref. No.
A9097B	Addressable Type A (Indoor) Sounder Beacon Base (Standard Mounting Bracket)	1426j/01
	<i>Notes:</i>	
	<i>Meets the requirements of EN 54-3: 2014 at the following tones</i>	
	<i>Sweep Tone 667Hz - 2KHz@0.21Hz</i>	

Accessories
Standard Mounting Bracket

Certificate No: 1426a-(cl-1) to EN 54-3 :2001 + A1: 2002 + A2: 2006, EN 54-23: 2010

Certificated Products

		LPCB Ref. No.
C9091T	Conventional Sounder Beacon	1426a/01
	<i>Notes:</i>	
	1) <i>Meets the requirements of EN 54-23 at the following:</i>	
	- <i>Category C-3-8 + W-2.4-6</i>	

Certificated Products	LPCB Ref. No.
<p>A9091T</p> <p>- Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz Addressable Sounder Beacon (DZ-90DZ-909191 Base) Notes: 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz</p>	<p>1426a/02</p>

Base
DZ-9091K
DZ-9091

Certificate No: 1426h-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products	LPCB Ref. No.
<p>A9092T</p> <p>Intelligent Red Sounder with Visual Indicator (DZ-9091K Base) Notes: Meets the requirements of EN 54-3 at the following tone: Sweep tone 667Hz-2kHz @0.21Hz</p>	<p>1426h/01</p>

Base
DZ-9091K

SHIELD FIRE, SAFETY AND SECURITY LIMITED

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E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 010ak-(cl-4) to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 010ax-(cl-1) to 54-3: 2001 + A1: 2002 + A2: 2006 & EN 54-17:2005
Certificate No: 928w-(cl-7) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Devices

Certificated Products	LPCB Ref. No.
<p>SEN-A4021</p> <p>enhanced deep isolating base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s</p>	<p>010ak/01</p>
<p>SEN-A4022</p> <p>Type B Intelligent Open Area Sounder Beacon (Red) (SEN-A4025 enhanced deep isolating base) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: Standard-840Hz,0.5s/558Hz,0.5s Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off German DIN-1200-500Hz over 1s</p>	<p>010ak/03</p>
<p>SEN-A4026</p> <p>Addressable Sounder Base (White) with Isolator (SEN-A4027 and SEN-A4028 Caps) Notes: 1. Meets the requirements of EN 54-3: 2001 at the following tone settings: Tone 1 Apollo Evacuation Tone - 567Hz for 0.5s, 850Hz for 0.5s Tone 12 Alternating - (Hochiki & Fulleon) - 925Hz for 0.25s,</p>	<p>010ax/01</p>

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

		LPCB Ref. No.
SC-4020	<p>626Hz for 0.25s Tone 14 Medium Sweep - 800Hz to 970Hz at 1 Hz Tone 3 Dutch Slow Whoop (sweep) - 500Hz - 1200Hz for 3.5s, 0.5s off Tone 4 DIN Toe (sweep) - 1200Hz - 500Hz for 1s Tone 18 Swedish Fire Tone - 660Hz, 150ms on, 150ms off Tone 0 Apollo Alert Tone - 1s off, 1s 850Hz Tone 11 Continuous (Hochiki & Fulleon) - 925Hz Tone 13 Continuous - 970Hz Tone 2 Continuous - 850Hz Tone 17 Swedish all clear signal - Continuous - 660Hz 2. Type A and approved for sounder volumes 2-7 only. Conventional Wall Sounder Type A/B Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)</p>	928w/07

Accessories:

SEN-A4025 Enhanced deep isolating base (Red)
SEN-A4027 White Cap (Lockable)
SEN-A4028 Red Cap (Lockable)

Certificate No: 928y-(cl-7) to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-23: 2010

Visual & Audible Warning Devices

Certificated Products

		LPCB Ref. No.
SC-4050	<p>Conventional Wall Sounder and Visual Alarm Device Type A/B Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization</p>	928y/01

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Certificate No: 548e-(cl-4) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
S-A491	<p>Intelligent sounder strobe (Shallow Base and S-49DB Base) Notes: 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off 2. Approved in both normal and power saving mode 3. The visual alarm function is not in the scope of this approval 4. Approved with single address and dual address (pre-alarm and main alarm).</p>	548e/02
S-C481	<p>Conventional sounder strobe (Shallow Base and S-49DB Base) Notes: 1. Meets the requirements of EN 54-3: 2001 at the following tones:</p>	548e/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
S-A496 Tone 01 2800Hz 0.34s off/0.4s on Tone 02 2400Hz -2900Hz @3Hz 2. The visual alarm function is not in the scope of this approval. Analogue Addressable Indoor sounder Beacon Base (DZ-03 base) Notes: 1) Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz - 2900Hz @ 3Hz Tone 16 500Hz - 1200Hz, 3.75s on / 0.25s off 2) Approved in both normal and power saving mode 3) The beacon functionality is not approved to EN 54-23 4) Approved with P-9907 cover plate	548e/03
S-C480 Conventional Type A Sounder (Shallow base, S-49DB Deep Base) Notes: 1) Meets the requirements of EN 54-3:2001 at the following tones: Tone 01, 2800Hz 0.34s off/0.4s on Tone 02, 2400Hz - 2900Hz @ 3Hz	548e/04
S-A490 Intelligent Type A Sounder (Shallow base, S-49DB Deep Base) Notes: 1) Meets the requirements of EN 54-3:2001 at the following tones: Tone 14, 2400Hz - 2900Hz @ 3Hz Tone 16, 500Hz - 1200Hz, 3.75s / 0.25s off Pre-Alarm 800Hz 1s off / 1s on	548e/05

Bases

DZ-03 Standard Base
S-49DB Deep Base
Shallow Base

Siemens Switzerland Limited

Building Technologies Division, International Headquarters, Gubelstrasse 22, CH-6301 Zug, Switzerland
Tel: +41 (0) 41 724 24 24 • Fax: +41 (0) 41 724 35 22

Sounders

Accessories:

FDB221	Detector base
FDB221-AA	Detector base, addressed with 2 micro-terminals
FDB291	Base attachment
FDB293	Base attachment wet
FDB221/FDB221-AA	Analogue addressable base
FDB222 Flat,	Analogue addressable base
FDB291	Base attachment
FDB293	Base attachment humid

Siemens Switzerland Ltd

Theilerstrasse 1a, , CH-6300 Zug, Switzerland
Website: www.siemens.com

Certificate No: 531u-(cl-1) to EN 54-3:2001 + A1:2002 + A1:2006

Certificate No: 531p-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006; EN 54-17:2005

Certificated Products	LPCB Ref. No.
DBS720 Analogue Addressable Type A Base Sounder Notes: 1) Meets the requirements of EN 54-3 with the following tones: 970Hz Continuous 950Hz; 1s on, 1s off Intermittent 1200Hz/500Hz at 1Hz Tone 3 Sweep down 500Hz/1200Hz over 3.5s, 0.5s off Slow whoop 500Hz; 0.15s on, 0.1s off Pulse tone 500Hz; 0.15s on, 0.6s off Intermittent 500Hz Tone 7 Continuous	531u/01

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
560Hz 0.1s/440Hz 0.4s Tone 8 Alternating 420Hz; 0.6s on, 0.65s off Tone 9 Intermittent 500/1200Hz over 3.75s, 0.25s off Tone 10 Slow whoop 970Hz; 3 pulses 0.5s on, 0.5s off repeated after 1.5s Tone 11 Intermittent 2) Approved only when used with detector devices OP720, OH720, HI720, HI722, OOH740 and OOH740	
FDSB291 Analogue Addressable Loop Sounder Base Note: 1) Meets the requirements of EN 54-3 at the following tones: 970Hz Continuous 950Hz 1s Intermittent 1200-500Hz Sweep Down 1s 520-1200Hz Sweep Up 3.5s, 0.5s off 500Hz Pulse 0.15s on, 0.1s off 500Hz Pulse 0.15s on, 0.6s off 500Hz Continuous 560Hz/440Hz 100ms on, 400ms off 420Hz 0.6s on, 0.65s off 500Hz-1200Hz Sweep Up 3.75s, 0.25s off 970Hz 3 pulses 0.5s on 0.5s off, then 1.5s pause	531u/02
FDSB292 Analogue Addressable Loop Sounder Base Notes: 1) Approved for use with detector models FDOOT241-9 and FDOOT241-A9 in collective mode 2) Meets the requirements of EN 54-3 at the following tone: 970Hz Continuous	531u/03
FDS229-R Analogue Addressable Type B Sounder Beacon (Red) with Short Circuit Isolator (FDB221, FDB221-AA, FDB222, FDB291 and FDB293) 1) Meets the requirements of EN 54-3 at the following tones: Continuous 970Hz 1s Intermittent 950Hz 1s Sweep-down 1200Hz-500Hz 3.5s Slow-whoop sweep-up, 0.5s linear 500Hz-1200Hz Pulse-tone 150ms on 100ms off 500Hz Intermittent 150ms on 600ms off 500Hz Continuous 500Hz Alternating 0.1s on 0.4s off 560Hz/440Hz Intermittent 600ms on 650ms off 420Hz 3.75s Slow-whoop sweep-up, 0.25s linear 500Hz-1200Hz Intermittent 0.5s on 0.5s off 1s pause 970Hz	531p/03
FDS229-A Analogue Addressable Type B Sounder Beacon (Amber) with Short Circuit Isolator (FDB221, FDB221-AA, FDB222, FDB291 and FDB293) 1) Meets the requirements of EN 54-3 at the following tones: Continuous 970Hz 1s Intermittent 950Hz 1s Sweep-down 1200Hz-500Hz 3.5s Slow-whoop sweep-up, 0.5s linear 500Hz-1200Hz Pulse-tone 150ms on 100ms off 500Hz Intermittent 150ms on 600ms off 500Hz Continuous 500Hz Alternating 0.1s on 0.4s off 560Hz/440Hz Intermittent 600ms on 650ms off 420Hz 3.75s Slow-whoop sweep-up, 0.25s linear 500Hz-1200Hz Intermittent 0.5s on 0.5s off 1s pause 970Hz	531p/02
FDS221-x Analogue Addressable Type B Loop Sounder with Short Circuit Isolator (FDB221, FDB221-AA, FDB222, FDB291 and FDB293 bases) Notes: 1. Key, x = R Body colour Red x = W Body colour White 2. Meets the requirements of EN 54-3 at the following tones: 970Hz Continuous 950Hz 1s Intermittent 1200-500Hz Sweep Down 1s 520-1200Hz Sweep Up 3.5s, 0.5s off 500Hz Pulse 0.15s on, 0.1s off 500Hz Pulse 0.15s on, 0.6s off 500Hz Continuous 560Hz/440Hz 100ms on, 400ms off 420Hz 0.6s on, 0.65s off 500Hz-1200Hz Sweep Up 3.75s, 0.25s off 970Hz 3 pulses 0.5s on 0.5s off, then 1.5s pause	531p/01
FDS224-R Analogue Addressable Type B Sounder with Short Circuit Isolator, Red Body (FDB226-R,	531p/04

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

FDB227-R bases)	<p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirement of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 	
FDS224-W	<p>2. Operating voltage range 12-33V Analogue Addressable Type B Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirement of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 	531p/04
FDS225-R	<p>2. Operating voltage range 12-33V Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, Red Body (FDB226-R, FDB227-R bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirement of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall 	531p/05
FDS225-W	<p>2. Operating voltage range 12-33V Analogue Addressable Type B Voice Sounder with Short Circuit Isolator, White Body (FDB226-W, FDB227-W bases)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirement of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Continuous 970Hz 2 - Intermittent 950Hz, 1s on, 1s off 3 - Sweep down 1200Hz to 500Hz, 1s period 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off 5 - Pulse tone 500Hz, 0.15s on, 0.1s off 6 - Intermittent 500Hz, 0.15s on, 0.6s off 7 - Continuous 500Hz 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s 9 - Intermittent 420Hz, 0.6s on, 0.65s off 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap 12 - Sweep-up 800Hz to 970Hz, 1/7s period 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall <p>2. Operating voltage range 12-33V</p>	531p/05

FDB221 Detector base
 FDB221-AA Detector base, addressed with 2 micro-terminals
 FDB291 Base attachment
 FDB293 Base attachment wet
 FDB221/FDB221-AA Analogue addressable base
 FDB222 Flat, Analogue addressable base

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ALARM WARNING DEVICES

FDB291 Base attachment
FDB293 Base attachment humid
FDB226-R / FDB226-W Base (IP33C)
FDB227-R / FDB227-W Deep base (IP33C)

Certificate No: 531v-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005, EN 54-23:2010

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FDS226-RR	<p>Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500HzAlternating 560Hz and 440Hz, 0.1s and 0.4sIntermittent 420Hz, 0.6s on, 0.65s offSlow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s offIntermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gapSweep-up 800Hz to 970Hz, 1/7s periodIndustrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fallMeets the requirements of EN 54-23 at the following:<ul style="list-style-type: none">Category W-2.8-8.8 (High Beacon Intensity)<ul style="list-style-type: none">W-2.4-7.5 (Medium Beacon Intensity)O-2-6.2 (Low Beacon Intensity)Flash Rate 0.5HzOperating Voltage Range 16-33V	531v/01
FDS226-WR	<p>Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500HzAlternating 560Hz and 440Hz, 0.1s and 0.4sIntermittent 420Hz, 0.6s on, 0.65s offSlow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s offIntermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gapSweep-up 800Hz to 970Hz, 1/7s periodIndustrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fallMeets the requirements of EN 54-23 at the following:<ul style="list-style-type: none">Category W-2.8-8.8 (High Beacon Intensity)<ul style="list-style-type: none">W-2.4-7.5 (Medium Beacon Intensity)O-2-6.2 (Low Beacon Intensity)Flash Rate 0.5HzOperating Voltage Range 16-33V	531v/01
FDS226-RW	<p>Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs (FDB226-R, FDB227-R bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500Hz	531v/02

Certificated Products

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- 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s
- 9 - Intermittent 420Hz, 0.6s on, 0.65s off
- 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off
- 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap
- 12 - Sweep-up 800Hz to 970Hz, 1/7s period
- 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

- 2) Meets the requirements of EN 54-23 at the following:
 - Category W-3.2-10 (High Beacon Intensity)
 - W-2.4-7.5 (Medium Beacon Intensity)
 - O-2-6.2 (Low Beacon Intensity)
 - Flash Rate 0.5Hz
 - Operating Voltage Range 16-33V

FDS226-WW

Analogue Addressable Type B Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases)

531v/02

Notes:

- 1. Meets the requirement of EN 54-3 at the following tones:
 - 1 - Continuous 970Hz
 - 2 - Intermittent 950Hz, 1s on, 1s off
 - 3 - Sweep down 1200Hz to 500Hz, 1s period
 - 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off
 - 5 - Pulse tone 500Hz, 0.15s on, 0.1s off
 - 6 - Intermittent 500Hz, 0.15s on, 0.6s off
 - 7 - Continuous 500Hz
 - 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s
 - 9 - Intermittent 420Hz, 0.6s on, 0.65s off
 - 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off
 - 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap
 - 12 - Sweep-up 800Hz to 970Hz, 1/7s period
 - 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

- 2) Meets the requirements of EN 54-23 at the following:
 - Category W-3.2-10 (High Beacon Intensity)
 - W-2.4-7.5 (Medium Beacon Intensity)
 - O-2-6.2 (Low Beacon Intensity)
 - Flash Rate 0.5Hz
 - Operating Voltage Range 16-33V

FDS227-RR

Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs (FDB226-R, FDB227-R bases)

531v/03

Notes:

- 1. Meets the requirement of EN 54-3 at the following tones:
 - 1 - Continuous 970Hz
 - 2 - Intermittent 950Hz, 1s on, 1s off
 - 3 - Sweep down 1200Hz to 500Hz, 1s period
 - 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off
 - 5 - Pulse tone 500Hz, 0.15s on, 0.1s off
 - 6 - Intermittent 500Hz, 0.15s on, 0.6s off
 - 7 - Continuous 500Hz
 - 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s
 - 9 - Intermittent 420Hz, 0.6s on, 0.65s off
 - 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off
 - 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap
 - 12 - Sweep-up 800Hz to 970Hz, 1/7s period
 - 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

- 2) Meets the requirements of EN 54-23 at the following:
 - Category W-2.8-8.8 (High Beacon Intensity)
 - W-2.4-7.5 (Medium Beacon Intensity)
 - O-2-6.2 (Low Beacon Intensity)
 - Flash Rate 0.5Hz
 - Operating Voltage Range 16-33V

FDS227-WR

Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit Isolator, White Body, Red LEDs (FDB226-W, FDB227-W bases)

531v/03

Notes:

- 1. Meets the requirement of EN 54-3 at the following tones:
 - 1 - Continuous 970Hz
 - 2 - Intermittent 950Hz, 1s on, 1s off
 - 3 - Sweep down 1200Hz to 500Hz, 1s period

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ALARM WARNING DEVICES

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- 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off
- 5 - Pulse tone 500Hz, 0.15s on, 0.1s off
- 6 - Intermittent 500Hz, 0.15s on, 0.6s off
- 7 - Continuous 500Hz
- 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s
- 9 - Intermittent 420Hz, 0.6s on, 0.65s off
- 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off
- 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap
- 12 - Sweep-up 800Hz to 970Hz, 1/7s period
- 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

- 2) Meets the requirements of EN 54-23 at the following:
 - Category W-2.8-8.8 (High Beacon Intensity)
 - W-2.4-7.5 (Medium Beacon Intensity)
 - O-2-6.2 (Low Beacon Intensity)
 - Flash Rate 0.5Hz
 - Operating Voltage Range 16-33V

FDS227-RR-C

Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, Red LEDs* (FDB226-R, FDB227-R bases)

531v/03

Notes:

1. Meets the requirement of EN 54-3 at the following tones:
 - 1 - Continuous 970Hz
 - 2 - Intermittent 950Hz, 1s on, 1s off
 - 3 - Sweep down 1200Hz to 500Hz, 1s period
 - 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off
 - 5 - Pulse tone 500Hz, 0.15s on, 0.1s off
 - 6 - Intermittent 500Hz, 0.15s on, 0.6s off
 - 7 - Continuous 500Hz
 - 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s
 - 9 - Intermittent 420Hz, 0.6s on, 0.65s off
 - 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off
 - 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap
 - 12 - Sweep-up 800Hz to 970Hz, 1/7s period
 - 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

- 2) Meets the requirements of EN 54-23 at the following:
 - Category W-2.8-8.8 (High Beacon Intensity)
 - W-2.4-7.5 (Medium Beacon Intensity)
 - O-2-6.2 (Low Beacon Intensity)
 - Flash Rate 0.5Hz
 - Operating Voltage Range 16-33V

*Can be configured according to specific customer requirements

FDS227-WR-C

Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, Red LEDs* (FDB226-W, FDB227-W bases)

531v/03

Notes:

1. Meets the requirement of EN 54-3 at the following tones:
 - 1 - Continuous 970Hz
 - 2 - Intermittent 950Hz, 1s on, 1s off
 - 3 - Sweep down 1200Hz to 500Hz, 1s period
 - 4 - Slow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s off
 - 5 - Pulse tone 500Hz, 0.15s on, 0.1s off
 - 6 - Intermittent 500Hz, 0.15s on, 0.6s off
 - 7 - Continuous 500Hz
 - 8 - Alternating 560Hz and 440Hz, 0.1s and 0.4s
 - 9 - Intermittent 420Hz, 0.6s on, 0.65s off
 - 10 - Slow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s off
 - 11 - Intermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gap
 - 12 - Sweep-up 800Hz to 970Hz, 1/7s period
 - 13 - Industrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fall

- 2) Meets the requirements of EN 54-23 at the following:
 - Category W-2.8-8.8 (High Beacon Intensity)
 - W-2.4-7.5 (Medium Beacon Intensity)
 - O-2-6.2 (Low Beacon Intensity)
 - Flash Rate 0.5Hz
 - Operating Voltage Range 16-33V

*Can be configured according to specific customer requirements

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FDS227-RW	<p>Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs (FDB226-R, FDB227-R bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500HzAlternating 560Hz and 440Hz, 0.1s and 0.4sIntermittent 420Hz, 0.6s on, 0.65s offSlow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s offIntermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gapSweep-up 800Hz to 970Hz, 1/7s periodIndustrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fallMeets the requirements of EN 54-23 at the following:<ul style="list-style-type: none">Category W-3.2-10 (High Beacon Intensity)<ul style="list-style-type: none">W-2.4-7.5 (Medium Beacon Intensity)O-2-6.2 (Low Beacon Intensity)Flash Rate 0.5HzOperating Voltage Range 16-33V	531v/04
FDS227-WW	<p>Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs (FDB226-W, FDB227-W bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500HzAlternating 560Hz and 440Hz, 0.1s and 0.4sIntermittent 420Hz, 0.6s on, 0.65s offSlow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s offIntermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gapSweep-up 800Hz to 970Hz, 1/7s periodIndustrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fallMeets the requirements of EN 54-23 at the following:<ul style="list-style-type: none">Category W-3.2-10 (High Beacon Intensity)<ul style="list-style-type: none">W-2.4-7.5 (Medium Beacon Intensity)O-2-6.2 (Low Beacon Intensity)Flash Rate 0.5HzOperating Voltage Range 16-33V	531v/04
FDS227-RW-C	<p>Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, Red Body, White LEDs* (FDB226-R, FDB227-R bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500HzAlternating 560Hz and 440Hz, 0.1s and 0.4sIntermittent 420Hz, 0.6s on, 0.65s offSlow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s offIntermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gapSweep-up 800Hz to 970Hz, 1/7s periodIndustrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fallMeets the requirements of EN 54-23 at the following:<ul style="list-style-type: none">Category W-3.2-10 (High Beacon Intensity)<ul style="list-style-type: none">W-2.4-7.5 (Medium Beacon Intensity)O-2-6.2 (Low Beacon Intensity)	531v/04

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ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
	<ul style="list-style-type: none">Flash Rate 0.5HzOperating Voltage Range 16-33V	
FDS227-WW-C	<p>Analogue Addressable Type B Voice Sounder Beacon VAD with Short Circuit isolator, White Body, White LEDs* (FDB226-W, FDB227-W bases)</p> <p>Notes:</p> <ol style="list-style-type: none">Meets the requirement of EN 54-3 at the following tones:<ol style="list-style-type: none">Continuous 970HzIntermittent 950Hz, 1s on, 1s offSweep down 1200Hz to 500Hz, 1s periodSlow whoop 500Hz to 1200Hz, 4s period, 3.5s sweep, 0.5s offPulse tone 500Hz, 0.15s on, 0.1s offIntermittent 500Hz, 0.15s on, 0.6s offContinuous 500HzAlternating 560Hz and 440Hz, 0.1s and 0.4sIntermittent 420Hz, 0.6s on, 0.65s offSlow whoop sweep up 500Hz to 1200Hz, 3.75s sweep, 0.25s offIntermittent 970Hz, three pulse 0.5s with 0.5s off, then 1.5s gapSweep-up 800Hz to 970Hz, 1/7s periodIndustrial alarm 150Hz to 1000Hz, 10s rise, 40s hold at 1000Hz, 10s fallMeets the requirements of EN 54-23 at the following:<ul style="list-style-type: none">Category W-3.2-10 (High Beacon Intensity)<ul style="list-style-type: none">W-2.4-7.5 (Medium Beacon Intensity)O-2-6.2 (Low Beacon Intensity)<ul style="list-style-type: none">Flash Rate 0.5HzOperating Voltage Range 16-33V <p>*Can be configured according to specific customer requirements</p>	531v/04

Bases

FDB226-R / FDB226-W

Base (IP33C)

FDB227-R / FDB227-W

Deep base (IP33C)

Silver-Tec Limited

Unit 1-2, Building 53B, Pensnett Trading Estate, Kingswinford, West Midlands DY6 7XQ, United Kingdom

Tel: +44 (0)1384 671611

E-mail: info@silver-tec.co.uk • Website: www.silver-tec.co.uk

Certificate No: 164h-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
ST-ABS-W	<p>Intelligent Analogue Addressable Type A Base Sounder - White Version (ST-ABI-SCW, ST-ABI-SCR bases)</p> <p>Note:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones.	164h/01
ST-AWS-R	<p>Intelligent Analogue Addressable Type A Wall Sounder (ST-ABI-SCR base)</p> <p>Note:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones.	164h/02
ST-AWS-W	<p>Intelligent Analogue Addressable Type A Wall Sounder - White Version (ST-ABI-SCR base)</p> <p>Note:</p> <ol style="list-style-type: none">Meets the requirements of EN 54-3 for all 51 tones listed under Approved Tones.	164h/02

Bases:

ST-ABI-SCW

Short Circuit Isolator Base

ST-ABI-SCR

Short Circuit Isolator Base

Approved Tones:

1 - 925 Hz : 250 ms / 628 Hz : 250 ms

2 - 925 Hz Continuous

3 - 628 Hz Continuous

- 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 - 925 Hz : 150 ms / Off : 600 ms
- 7 - 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
- 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 - 970 Hz : 500 ms / Off : 500 ms
- 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
- 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
- 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
- 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
- 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
- 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
- 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 - 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 - 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off: 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms
- 50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
- 51 - Whoop 500-1200 3500 ms / Off 500 ms

Certificate No: 164t-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23:2010

Certificated Products

ST-AWSF-RWL

Addressable Type A/B Wall Sounder (White LED) Beacon
(ST-ABI-SCR and ST-ABI-W bases)

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization
2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.
3. The VAD is Type A when used with any of the above bases and Type B when used with a ST-AKWB-R weatherproofing kit

ST-AWSF-WWL

Addressable Type A/B Wall Sounder (White LED) Beacon
(ST-ABI-SCR and ST-ABI-W bases)

Notes:

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category 0
 - Flash rate 0.5Hz
 - Synchronization

LPCB Ref.

No.

164t/01

164t/03

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref. No.

ST-ABSF-WWL	<p>2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones.</p> <p>3. The VAD is Type A when used with any of the above bases and Type B when used with a ST-AKWB-R weatherproofing kit</p> <p>Analogue Addressable Type A Base Sounder (White LED) Beacon (ST-ABI-SCR and ST-ABI-W bases)</p> <p>Notes:</p> <p>1. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:</p> <ul style="list-style-type: none">- Category 0- Flash rate 0.5Hz- Synchronization <p>2. Meets the requirements of EN 54-3 for all 51 tones as listed under approved tones</p>	164t/07
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Bases:

ST-ABI-SCR	Standard Base
ST-ABI-W	Standard Base

Accessories:

ST-AKWB-R	Weatherproofing kit
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Approved tones:

- 1 - 925 Hz : 250 ms / 628 Hz : 250 ms
- 2 - 925 Hz Continuous
- 3 - 628 Hz Continuous
- 4 - (French) 554 Hz : 100 ms / 440 Hz : 400 ms
- 5 - (Swedish) 660 Hz : 150 ms / Off : 150 ms
- 6 - 925 Hz : 150 ms / Off : 600 ms
- 7 - 670 Hz : 250 ms / 845 Hz : 370 ms
- 8 - Whoop 500 Hz - 1200 Hz : 3000 ms / Off : 500 ms
- 9 - 1200 Hz : 500 ms / 500 Hz : 500 ms
- 10 - 970 Hz : 500 ms / Off : 500 ms
- 11 - Sweep 800 Hz - 970 Hz over 140 ms (7 Hz)
- 12 - Sweep 800 Hz - 970 Hz over 1000 ms (1 Hz)
- 13 - Sweep 800 Hz - 970 Hz over 20 ms (50 Hz)
- 14 - Sweep 2400 Hz - 2850 Hz over 140 ms (7 Hz)
- 15 - Sweep 2400 Hz - 2850 Hz over 1000 ms (1 Hz)
- 16 - Sweep 300 Hz - 1200 Hz over 1000 ms (1 Hz)
- 17 - ISO8201 : 970 Hz : 500 ms / Off : 500 ms
- 18 - ISO8201 : 2850 Hz : 500 ms / Off : 500 ms
- 19 - 800 Hz : 250 ms / 970 Hz : 250 ms
- 20 - 2850 Hz Continuous
- 21 - 2400 Hz : 250 ms / 2850 Hz : 250 ms
- 22 - 800 Hz : 500 ms / 970 Hz : 500 ms
- 23 - 2850 Hz : 500 ms / Off : 500 ms
- 24 - 925 Hz : 250 ms / Off : 1000 ms
- 25 - 970 Hz Continuous
- 26 - 660 Hz : 1800 ms / Off : 1800 ms
- 27 - 660 Hz : 6500 ms / Off : 13000 ms
- 28 - 660 Hz Continuous
- 29 - 554 Hz : 500 ms / 440 Hz : 500 ms
- 30 - 660 Hz : 500 ms / Off : 500 ms
- 31 - 2850 Hz : 150 ms / Off : 100 ms
- 32 - Sweep 2400 Hz - 2850 Hz over 20 ms (50 Hz)
- 33 - Sweep 800 Hz - 970 Hz over 500 ms (2 Hz)
- 34 - 988 Hz : 250 ms / 645 Hz : 250 ms
- 35 - 510 Hz : 250 ms / 610 Hz : 250 ms
- 36 - Sweep 800 Hz - 970 Hz over 110 ms (9 Hz)
- 37 - Sweep 800 Hz - 970 Hz over 330 ms (3 Hz)
- 38 - 845 Hz Continuous
- 39 - 970 Hz : 1000 ms / Off : 1000 ms
- 40 - 800 Hz : 150 ms / 970 Hz : 150 ms
- 41 - Sweep 2400 Hz - 2850 Hz over 110 ms (9 Hz)
- 42 - Sweep 2400 Hz - 2850 Hz over 330 ms (3 Hz)
- 43 - 2850 Hz : 1000 ms / Off : 1000 ms
- 44 - 2400 Hz : 150 ms / 2850 Hz : 150 ms
- 45 - (German) Whoop 1200 Hz - 500 Hz : 1000ms / Off : 10 ms
- 46 - 440 Hz : 600 ms / Off : 600 ms
- 47 - Whoop 500 Hz - 1200 Hz : 3750 ms / Off : 250 ms
- 48 - ISO8201 : 925 Hz, 628 Hz : 250 ms / Off 500 ms
- 49 - ISO8201 : Sweep 300 Hz - 1200 Hz : 500 ms / Off : 500 ms

50 - ISO8201 : Sweep 1200 Hz - 300 Hz : 500 ms / Off : 500 ms
51 - Whoop 500-1200 3500 ms / Off 500 ms

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Certificate No: 042bk to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 042bj to EN 54-3: 2001 + A1: 2002 + A2: 2006 and EN 54-17: 2005
Certificate No: 567z-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005
Certificate No: 567ah-(cl-1) to EN 54-17: 2005 & EN 54-23: 2010
Certificate No: 567ag-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2005 & EN 54-23: 2010

Certificated Products	LPCB Ref. No.
<p>SEN-S-EP-R Senti Type A Red Body Sounder with Short Circuit Isolator (Back Box)</p> <p><i>Note:</i></p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz <p><i>Bases:</i> Black Box</p>	567z/06
<p>SEN-S-VAD-HPR-R Senti Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low red output - Medium red output - High red output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-6.7-14) - Medium Performance setting - (Category W: W-6.5-12.5) - Low Performance setting - (Category W: W-5-9.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	567ag/01
<p>SEN-S-VAD-HPW-R Senti Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	567ag/04
<p>SEN-S-VAD-LPR-R Senti Type A Red Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: 	567ag/19

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
SEN-S-VAD-LPW-R	<ul style="list-style-type: none">- Low Performance setting - (Category W: W-3-8.5)- Synchronization- Flash rate 2 seconds (0.5Hz) Sentri Type A White Standard Performance VAD Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ul style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz2. Alternating tone 730/970Hz @ 2Hz3. Continuous tone 970Hz2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:<ul style="list-style-type: none">- Low Performance setting - (Category W: W-3-8.5)- Synchronization- Flash rate 2 seconds (0.5Hz)	567ag/20
SEN-S-R	Sentri Type A Red Body Sounder with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Note: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ul style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz2. Alternating tone 730/970Hz @ 2Hz3. Continuous tone 970Hz	567z/01
SEN-VAD-HPR-R	Sentri Type A Red High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">• Low red output• Medium red output• High red output2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:<ul style="list-style-type: none">- High Performance setting - (Category W: W-6.7-14)- Medium Performance setting - (Category W: W-6.5-12.5)- Low Performance setting - (Category W: W-5-9.5)- Synchronization- Flash rate 2 seconds (0.5Hz)	567ah/01
SEN-VAD-HPW-R	Sentri Type A White High Performance VAD Red Body with Short Circuit Isolator (S3-DB-R and S3-SB-R Bases) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">• Low white output• Medium white output• High white output2. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:<ul style="list-style-type: none">- High Performance setting - (Category W: W-5-12.5)- Medium Performance setting - (Category W: W-4.5-11.3)- Low Performance setting - (Category W: W-3-8.5)- Synchronization- Flash rate 2 seconds (0.5Hz)	567ah/02
SEN-S-VAD-HPR-EP-R	Sentri Type A Red High Performance VAD Red Body Sounder with Short Circuit Isolator (Back Box) Notes: <ul style="list-style-type: none">1. Meets the requirements of EN 54-3 at the following sounder tone settings:<ul style="list-style-type: none">1. Intermittent tone 970Hz @ 1Hz2. Alternating tone 730/970Hz @ 2Hz3. Continuous tone 970Hz2. Meets the requirements of EN 54-23 at the following power settings:<ul style="list-style-type: none">- Low red output- Medium red output- High red output3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details:<ul style="list-style-type: none">- High Performance setting - (Category W: W-6.7-14)- Medium Performance setting - (Category W: W-6.5-12.5)- Low Performance setting - (Category W: W-5-9.5)- Synchronization- Flash rate 2 seconds (0.5Hz)	567ag/02

Certificated Products

SEN-S-VAD-HPW-EP-R	<p>Sentri Type A White High Performance VAD Red Body Sounder with Short Circuit Isolator (Back Box)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3 at the following sounder tone settings: <ol style="list-style-type: none"> 1. Intermittent tone 970Hz @ 1Hz 2. Alternating tone 730/970Hz @ 2Hz 3. Continuous tone 970Hz 2. Meets the requirements of EN 54-23 at the following power settings: <ul style="list-style-type: none"> - Low white output - Medium white output - High white output 3. The wall mounted Visual Alarm Device (VAD) meets the requirements of EN 54-23 for the following light pattern details: <ul style="list-style-type: none"> - High Performance setting - (Category W: W-5-12.5) - Medium Performance setting - (Category W: W-4.5-11.3) - Low Performance setting - (Category W: W-3-8.5) - Synchronization - Flash rate 2 seconds (0.5Hz) 	<p>LPCB Ref. No. 567ag/18</p>
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S3-DB-R Deep Base - Red
S3-SB-R Shallow Base - Red

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Certificate No: 548e-(cl-7) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
SEC-9403	<p>Conventional Sounder Strobe (Shallow Base and SE-94DB Deep Base)</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 01 2800Hz 0.34s off / 0.4s on Tone 02 2400Hz - 2900Hz @3Hz 2. The strobe function is not in the scope of the approval. 	548e/01
SEA-9403	<p>Intelligent Sounder Strobe (Shallow Base and SE-94DB Deep Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off 2. Approved in both normal and power saving mode 3. The strobe function is not in the scope of the approval 4. Approved with single address and dual address (pre-alarm and main alarm) 	548e/02
SEC-9404	<p>Conventional Type A Sounder (Shallow Base, SE-94DB Deep Base)</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 01 2800Hz 0.34s off / 0.4s on Tone 02 2400Hz - 2900Hz @3Hz 	548e/04
SEA-9404	<p>Intelligent Type A Sounder (Shallow Base, SE-94DB Deep Base)</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off Pre Alarm 800Hz, 1s on / 1s off 	548e/05
SEA-9405	<p>Analogue Addressable Type A Sounder Base (SE-DB-01 Base)</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off 2. Approved with SHA-9103E heat detector and SMA-9102E smoke detector 	548e/06
SEA-9406	<p>Analogue Addressable Type A Flashing Sounder Beacon Base (SE-DB-01 Base)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-3: 2001 at the following tones: Tone 14 2400Hz-2900Hz @ 3Hz Tone 16 500Hz-1200Hz, 3.75s on / 0.25s off 2. Approved with SHA-9103E heat detector and SMA-9102E smoke detector 3. The visual alarm function is not in the scope of this approval 	548e/07

PART 1: SECTION 7

ALARM WARNING DEVICES

Bases

SE-94DB Deep Base

SE-DB-01

Mounting Base

Sterling Safety Systems

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Certificate No: 928w-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 928ah-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006 & EN 54-17:2005 & EN 54-18:2005

Audible Warning Devices

Certificated Products

		LPCB Ref. No.
HFI-ABS-05	Altair Addressable Type A Sounder Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. Cover plate (LID100-AL/W or AL/R)	928w/05
HFI-ABSB-05	Altair Addressable Type A Sounder Beacon Base Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Dual Tone 800Hz and 960Hz, 250ms-250ms Tone 2 Continuous Tone, 1000Hz, Steady Tone 4 Slow Whoop, 500-1200Hz, 3500ms Sweep, 500ms OFF Tone 5 Sweep (DIN) Tone, 1200-500Hz, 1s sweep (1Hz) 2. The beacon function is not included within the scope of this approval 3. Cover plate (LID100-AL/W or AL/R)	928w/06
HFC-WSR-03	Conventional Type A/B (indoor/outdoor) Wall Sounder (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
HFC-WSW-03+ HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with HFI-SIM-01	928ah/01
HFC-WSR-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder with Short Circuit Isolator (Red Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. Device is only addressable when used in conjunction with HFI-SIM-01	928ah/01
HFC-WSW-03	Conventional Type A/B (indoor/outdoor) Wall Sounder (White Body) Notes: 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz)	928w/07
Ancillaries		
HFI-SIM-01	Addressable module with short circuit isolator	

Certificate No: 928y-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006; EN 54-23:2010
 Certificate No: 928z-(cl-2) to EN 54-3:2001 + A1:2002 + A2:2006; EN 54-17:2005; EN 54-18:2005; EN 54-23: 2010

Visual & Audible Warning Devices
Certificated Products

		LPCB Ref. No.
HFC-SBR-23-03	Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (Red Body) <i>Notes:</i> 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01
HFC-SBR-23-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (Red Body) <i>Notes:</i> 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 - Continuous Tone, 970Hz Tone 3 - Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 - German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928z/01
HFC-SBW-23-03	3. Device is only addressable when used in conjunction with HFI-SIM-01 Conventional Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device (White Body) <i>Notes:</i> 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate - 0.5Hz - Synchronization	928y/01
HFC-SBW-23-03 + HFI-SIM-01	Altair Addressable Type A/B (indoor/outdoor) Wall Sounder and Visual Alarm Device with Short Circuit Isolator (White Body) <i>Notes:</i> 1. Meets the requirements of EN 54-3 at the following tone settings: Tone 1 - Warble Tone 800Hz for 500ms, then 1000Hz for 500ms Tone 2 Continuous Tone, 970Hz Tone 3 Slow Whoop (Dutch), 500-1200Hz for 3500ms, then off for 500ms Tone 4 German DIN Tone, 1200-500Hz swept every 1000ms (1Hz) 2. The wall mounted VAD meets the requirements of EN 54-23 for the following: - Category W-2.5-7 - Flash rate 0.5Hz - Synchronization 3. Device is only addressable when used in conjunction with HFI-SIM-01	928z/01
Ancillaries		
HFI-SIM-01	Addressable module with short circuit isolator	

PART 1: SECTION 7

ALARM WARNING DEVICES

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Certificate No: 717a-(cl-3) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 010ak-(cl-5) to EN 54-3:2001 +A1:2002 +A2:2006

Alarm Warning Devices

Certificated Products

		LPCB Ref. No.
1000-100	Conventional Type A Sounder with LED Strobe (Red Head / Red Base) (PSO-0001 base) Notes: 1. Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13 2. Certification excludes the strobe function	717a/01
1000-101	Conventional Type B Sounder with LED Strobe (Red Head / Red Base) (PSO-0001 base) Notes: 1. Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13 2. Certification excludes the strobe function	717a/01
1000-200	Conventional Type A Sounder (Red) (PSO-0001 base) Note: Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13	717a/05
1000-201	Conventional Type B Sounder (Red) (PSO-0003 base) Note: Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13	717a/05
5000-902	Syncoln Intelligent Open-Area Sounder (Red) (45681-518SHA base) Note: 1. Meets the requirements of EN 54-3:2001 at the following tones: - Apollo standard-840Hz,0.5s/558Hz,0.5s - Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off - German DIN-1200-500Hz over 1s	010ak/01
5000-903	Syncoln Intelligent Open-Area Sounder Visual Indicator (Red) (45681-518SHA base) Notes: 1. Meets the requirements of EN 54-3:2001 at the following tones: - Apollo standard-840Hz,0.5s/558Hz,0.5s - Dutch (slow whoop)- 500-1200Hz in 3.5s, 0.5s off - German DIN-1200-500Hz over 1s - The Beacon function is not approved to EN 54-23	010ak/03

Bases

PSO-0001

PSO-0003

45681-518SHA Deep Isolating Base (Red)

Certificate No: 717e-(cl-1) to EN 54-23:2010

Visual Warning Devices

Certificated Products

		LPCB Ref. No.
1000-300	Conventional Type A Wall Mounted White Light LED Visual Alarm Device (red head / red bases) - (PSO-0001 base) Note: 1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/03
1000-301	Conventional Type B Wall Mounted White Light LED Visual Alarm Device (red head / red bases) - (PSO-0017) Note:	717e/03

Certificated Products

LPCB Ref. No.

1. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:
 - Category W-3.1-11.3
 - Flash rates 0.5Hz and 1Hz
 - Synchronization

Bases
PSO-0001 Red shallow base
PSO-0017 Red deep base

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Certificate No: 1330d-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products

LPCB Ref. No.

- | | | |
|--------|--|----------|
| TX7300 | Addressable Sounder Strobe (TX7300 base)
Notes: <ol style="list-style-type: none">1. Approved to Type A Indoor use only.2. Meets the requirements of EN 54-3:2001 at the following tones:<ul style="list-style-type: none">Tone 14, 2400 Hz - 2900 Hz @ 3HzTone 16, 500Hz - 1200Hz, 3.75s on/0.25s offTone 17, 800Hz, 1s off/1s on3. The strobe function is not approved to EN 54-23 | 1330d/01 |
| TX7302 | Addressable Sounder Base
Notes: <ol style="list-style-type: none">1. <i>Approved to Type A Indoor use only.</i>2. <i>Meets the requirements of EN 54-3:2001 at the following tones:<ul style="list-style-type: none">Tone 14, 2400 Hz - 2900 Hz @ 3HzTone 16, 500Hz - 1200Hz, 3.75s on/0.25s offTone 17, 800Hz, 1s off/1s on</i>3. <i>The strobe function is not approved to EN 54-23</i> | 1330d/02 |

Base
TX7300 Sounder Base

Tanda Development Pte Ltd

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Certificate No: 1330d-(cl-4) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products

LPCB Ref. No.

- | | | |
|--------|--|----------|
| TX7300 | Addressable Sounder Strobe (TX7300 base)
Notes: <ol style="list-style-type: none">1. <i>Approved to Type A Indoor use only.</i>2. <i>Meets the requirements of EN 54-3:2001 at the following tones:</i><ul style="list-style-type: none">• <i>Tone 14, 2400 Hz - 2900 Hz @ 3Hz</i>• <i>Tone 16, 500Hz - 1200Hz, 3.5s on/0.25s off</i>• <i>Tone 17, 800Hz, 1s off/1s on</i>3. <i>The strobe function is not approved to EN 54-23</i> | 1330d/01 |
|--------|--|----------|

Base

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ALARM WARNING DEVICES

TX7300

Tecnoalarm S.r.l.

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Tel: +39011 22 35 410 • Fax: +39011 27 35 590

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Certificate No: 1519e to EN 54-3:2001 + A1: 2002+ A2: 2006, EN 54-17: 2005

Certificated Products

TFIS01-L

Addressable Internal Siren with Short Circuit Isolator (TFBase01- Base)

Notes:

1. Meets the requirements of EN 54-3 at the following tones:
 - 1) Technofire alarm (sweep up) - 353Hz to 1950Hz in 1000ms + 50ms off
 - 2) Technofire technical alarm (sweep up) - 445Hz to 590Hz in 1000ms + 50ms off
 - 3) Technofire failure (sweep up/down) - 445Hz to 1000Hz in 1000ms + 1000Hz to 700Hz in 1000ms + 50ms off
 - 4) Technofire prealarm (4 tone pulses) - 100ms @ 1050Hz + 50ms off + 200ms @ 1300Hz + 50ms off + 100ms @ 1600Hz + 50ms off + 200ms @ 1900Hz + 50ms off
 - 5) AFNOR French alarm tone - 400ms @ 440Hz + 100ms @ 554Hz
 - 8) AFNOR French alarm tone - 500ms @ 500Hz + 500ms @ 1200Hz
 - 10) - 250ms @ 628Hz + 250ms @ 925Hz
 - 13) - 500ms @ 800Hz + 500ms @ 970Hz
 - 15) Telecom alternate tone - 250ms @ 800Hz + 250ms @ 970Hz
 - 18) - 250ms @ 2400Hz + 250ms @ 2850Hz
 - 22) Swedish alarm tone - 150ms @ 660Hz + 150ms off
 - 27) Intermittent tone - 250ms @ 925Hz + 1s off
 - 28) Intermittent tone - 250ms @ 970Hz + 1s off
 - 30) - 3 x (500ms @ 950Hz + 500ms off) + 1500ms off
 - 31) Intermittent tone - 1sec @ 970Hz + 1s to off
 - 33) HF & BS 5893 Pt1 backup alarm - 500ms @ 2850Hz + 500ms off
 - 34) - 3 x (500ms @ 2850Hz + 500ms off) + 1500ms off
 - 36) US temporal tone 3 - 610Hz continuous
 - 38) End alarm or Swedish alarm tone - 660Hz continuous
 - 41) British alarm tone - 970Hz continuous
 - 43) US temporal tone 3 - 2850Hz continuous
 - 45) Sweep - 300Hz to 1200Hz in 1000ms + 0ms off
 - 46) Sweep - 3 x (300Hz to 1200Hz in 500ms + 500ms off) + 1500ms off
 - 47) Sweep - 3 x (400Hz to 1200Hz in 500ms + 500ms off) + 1500ms off
 - 48) Sweep - 400Hz to 1200Hz in 3000ms + 500ms off
 - 50) Netherland NEN 2575 slow evacuation swap - 500Hz to 1200Hz in 3.5sec + 500ms off
 - 51) Netherland NEN 2575 slow evacuation swap - 500Hz to 1200Hz in 3.76sec + 250ms off
 - 52) BS 5839 Pt1 LF buzzer - 800Hz to 970Hz in 20ms + 0ms off
 - 53) BS 5839 Pt1 fast sweep - 800Hz to 970Hz in 140ms + 0ms off (7Hz)
 - 55) 800Hz to 970Hz in 330ms + 0ms off (3Hz)
 - 57) BS 5839 Pt1 medium sweep - 800Hz to 970Hz in 1000ms + 0ms off
 - 59) DIN & PFEER evacuation tone - 1200Hz to 500Hz in 1000ms + 10ms off
 - 62) VdS fast sweep or Australian alarm tone - 2400Hz to 2850Hz in 140ms + 0ms off (7Hz)

LPCB Ref.
No.
1519e/02

Base
TFBase01

Teletek Electronics JSC

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Certificate No: 1139e to EN 54-3:2001 + A1:2002 + A1:2006 & EN 54-17:2005
Certificate No: 1139d to EN 54-3:2001 + A1:2002 + A1:2006, EN 54-17:2005 & EN 54-23:2010

Certificated Products		LPCB Ref. No.
SensolRIS WSOU IS-R	Intelligent Analogue Addressable Fire Alarm Type A Indoor Sounder with built-in Short Circuit Isolator Module Notes: 1. <i>Approved to Type A Indoor only.</i> 2. <i>Meets the requirements of EN 54-3 and approved at the following tone: - Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only</i>	1139e/01
SensolRIS BSOU IS	Intelligent Analogue Addressable Fire Alarm Type A Base Sounder with built-in Short Circuit Isolator Module Notes: 1. <i>Approved to Type A Indoor only.</i> 2. <i>Meets the requirements of EN 54-3 and approved at the following tone: - Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only</i>	1139e/02
SensolRIS BSST IS	Intelligent Analogue Addressable Fire Alarm Type A Base Sounder Strobe/Flash with built-in Short Circuit Isolator Module Notes: 1. <i>Approved to Type A Indoor only.</i> 2. <i>Meets the requirements of EN 54-3 and approved at the following tone: - Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only</i>	1139e/03
SensolRIS WSST IS	Intelligent Analogue Addressable Fire Alarm Type A Indoor Wall Sounder and Strobe with built-in Short Circuit Isolator Module Notes: 1. <i>Approved to Type A Indoor only.</i> 2. <i>Meets the requirements of EN 54-3 and approved at the following tone: - Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only</i> 3. <i>Meets the requirements of EN 54-23 and approved as Open Class Category</i>	1139d/01
Expera BSi	Intelligent Analogue Addressable Fire Alarm Type A Base Sounder with built-in Short Circuit Isolator Module Notes: 1. <i>Approved to Type A Indoor only</i> 2. <i>Meets the requirements of EN 54-3 and approved at the following tone: Tone 27, 2400Hz - 2900Hz @ 3Hz high volume only</i>	1139e/04

Texecom Ltd

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Certificate No: 717a to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 717d to EN 54-23: 2010 & EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 717e to EN54-23: 2010
Certificate No: 717p to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products		LPCB Ref. No.
PSS-0068	Conventional Sounder with LED Strobe (Red Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/01

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Certificated Products	LPCB Ref. No.
PSS-0079 Conventional Sounder with LED Strobe (Red Head / White Base) PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/02
PSS-0073 Conventional Sounder with LED Strobe (Amber Head / Red Base) PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/03
PSS-0080 Conventional Sounder with LED Strobe (Amber Head / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/04
PSS-0084 Sonos DC Sounder Wide Voltage (Red) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/05
PSS-0089 Sonos DC Sounder Wide Voltage (White) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/06
PBS-0003 Universal base sounder (White) Notes: 1. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/07
PBS-0009 Universal base sounder (Cream) Notes: 1. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/08
PSC-0045 Conventional Sounder with LED Strobe Common Operation (Red Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/10
PSC-0051 Conventional Sounder with Red LED Strobe Common Operation (Clear Lens / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/11
PSC-0054 Conventional Sounder with LED Strobe Common Operation (Amber Head / Red Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases) Notes: 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i>	717a/12
PSC-0055 Conventional Sounder with Red LED Strobe (Clear Lens / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases)	717a/13

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i> 	
<p>PBS-0015 Universal base sounder (Red)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i> 	717a/14
<p>PSC-0062 Conventional Sounder with LED Strobe Common Operation (Red Head / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i> 	717a/16
<p>PSC-0063 Conventional Sounder with LED Strobe Common Operation (Amber Head / White Base) (PSO-0001, PSO-0006, PSO-0003 & PSO-0007 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. <i>The above sounder is Type A when used the with the shallow base & Type B when used with the deep base only</i> 2. <i>Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13</i> 	717a/17
<p>ESCA3000R Conventional Type A sounder and ceiling mounted white light LED visual alarm device (red head / red base) - (PSO-0001 / 18- 185856-2, PSO-0017 / HSG6918 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. The sounder meets the requirements of EN 54-3:2001 at tones 1, 2, 3, 6, 7 & 13 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization 	717d/01
<p>ESCA3000W Conventional Type A sounder and ceiling mounted white light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. The sounder meets the requirements of EN 54-3:2001 at tones 1, 2, 3, 6, 7 & 13 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization 	717d/02
<p>ESCA4000R Conventional Type A sounder and wall mounted white light LED visual alarm device (red head / red base) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. The sounder meets the requirements of EN 54-3:2001 at tones 1, 2, 3, 6, 7 & 13 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization 	717d/03
<p>ESCA4000W Conventional Type A sounder and wall mounted white light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. The sounder meets the requirements of EN 54-3:2001 at tones 1, 2, 3, 6, 7 & 13 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization 	717d/04
<p>ESBA3000R Conventional Type A/B ceiling mounted white light LED visual alarm device (red head / red bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: <ul style="list-style-type: none"> - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization 	717e/01

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Certificated Products		LPCB Ref. No.
ESBA3000W	Conventional Type A/B ceiling mounted white light LED visual alarm device (white head / white bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-15 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/02
ESBA4000R	Conventional Type A/B wall mounted white light LED visual alarm device (red head / red bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/03
ESBA4000W	Conventional Type A/B wall mounted white light LED visual alarm device (white head / white bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category W-3.1-11.3 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/04
ESDA2000R	Conventional Type A/B Ceiling Mounted Red Light LED Visual Alarm Device (Red Head / Red Bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz- Synchronization	717e/05
ESDA2000W	Conventional Type A/B Ceiling Mounted Red Light LED Visual Alarm Device (White Head / White Bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following: - Category C-3-8.9- Flash rates 0.5Hz and 1Hz- Synchronization	717e/06
ESDA1000R	Conventional Type A/B Wall Mounted Red Light LED Visual Alarm Device (Red Head / Red Bases) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following: - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz- Synchronization	717e/07
ESDA1000W	Conventional Type A/B Wall Mounted Red Light LED Visual Alarm Device (White Head / White Bases) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The VAD is Type A when used with the shallow base & Type B with the deep base. 2. The wall mounted VAD meets the requirements of EN 54-23: 2010 for the following: - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization	717e/08
ESFA2000R	Conventional Type A Sounder and Ceiling Mounted Red Light LED Visual Alarm Device (Red Head / Red Base) - (PSO-0001 / 18- 185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The sounder meets the requirements of EN 54-3: 2001 at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The ceiling mounted VAD meets the requirements of EN 54-23: 2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization	717d/05
ESFA2000W	Conventional Type A Sounder and Ceiling Mounted Red Light LED Visual Alarm Device (White Head / White Base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 Bases) Notes: 1. The sounder meets the requirements of EN 54-3:2001at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s,	717d/06

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ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p>7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz2. The ceiling mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category C-3-8.9 - Flash rates 0.5Hz and 1Hz - Synchronization</p> <p>ESFA1000R Conventional Type A Sounder and Wall Mounted Red Light LED Visual Alarm Device (Red Head / Red Base) - (PSO-0001 / 18-185856-2, PSO-0017 / HSG6918 Bases) Notes: 1. The sounder meets the requirements of EN 54-3:2001at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization</p>	717d/07
<p>ESFA1000W Conventional Type A sounder and wall mounted red light LED visual alarm device (white head / white base) - (PSO-0006 / 18-186049-2, PSO-0018 / HSG6917 bases) Notes: 1. The sounder meets the requirements of EN 54-3:2001at the following tones:- 1) 970Hz continuous, 2) 800Hz/970Hz @ 2Hz, 3) 800Hz - 970Hz @ 1Hz, 6) 554Hz, 0.1s/ 440Hz, 0.4s, 7) 500 - 1200Hz, 3.5s/ 0.5s OFF 13) 1200Hz - 500Hz @ 1Hz 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following:- - Category W-2.4-7.5 - Flash rates 0.5Hz and 1Hz - Synchronization</p>	717d/08
<p>ESFA1000G Conventional Type A Sounder and Wall Mounted Red Light LED Visual Alarm Device (grey head / grey base) (PSO-0022 base) Notes: 1. The sounder meets the requirements of EN 54-3:2001 at the following tones: 1) 970Hz continuous 2) 800Hz/970Hz @ 2Hz 3) 800Hz - 970Hz @ 1Hz 4) 554Hz, 0.1s / 440Hz, 0.4s 5) 500 - 1200Hz, 3.5s / 0.5s OFF 6) 1200Hz - 500Hz @ 1Hz 2. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: • Category W-2.4-7.5 • Flash rates 0.5Hz and 1Hz • Synchronization</p>	717d/09
<p>PSS-0151 Sonos DC Sounder Wide Voltage (Grey) (PSO-0022 base) Notes: 1. Meets the requirements of EN 54-3:2001 at tones 1,2,3,6,7 & 13 2. Approved to Type A Indoor use only</p>	717a/18
<p>TCC-0001 Intrinsically Safe Fire Alarm Sounder Type B (Red) (HSG6890SA base) Note: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)</p>	717p/01
<p>TCC-0007 Intrinsically Safe Fire Alarm Sounder Amber Beacon Type B (Red) (HSG6890SA base) Notes: 1. Meets the requirements of EN 54-3:2001 for the following tones - Tone 1 970Hz Continuous - Tone 2 800Hz/970Hz @ 2Hz - Tone 3 800Hz 970Hz @ 1Hz - Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001) - Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop) - Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)</p>	717p/02

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ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
TCC-0008	<p>2. The beacon function is not included within the scope of this approval. Intrinsically Safe Fire Alarm Sounder Red Beacon Type B (Red) (HSG6890SA base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3:2001 for the following tones<ul style="list-style-type: none">- Tone 1 970Hz Continuous- Tone 2 800Hz/970Hz @ 2Hz- Tone 3 800Hz 970Hz @ 1Hz- Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)- Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop)- Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)	717p/02
TCC-0009	<p>2. The beacon function is not included within the scope of this approval. Intrinsically Safe Fire Alarm Sounder Blue Beacon Type B (Red) (HSG6890SA base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3:2001 for the following tones<ul style="list-style-type: none">- Tone 1 970Hz Continuous- Tone 2 800Hz/970Hz @ 2Hz- Tone 3 800Hz 970Hz @ 1Hz- Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)- Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop)- Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)	717p/02
TCC-0010	<p>2. The beacon function is not included within the scope of this approval. Intrinsically Safe Fire Alarm Sounder Green Beacon Type B (Red) (HSG6890SA base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3:2001 for the following tones<ul style="list-style-type: none">- Tone 1 970Hz Continuous- Tone 2 800Hz/970Hz @ 2Hz- Tone 3 800Hz 970Hz @ 1Hz- Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)- Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop)- Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)	717p/02
TCC-0011	<p>2. The beacon function is not included within the scope of this approval. Intrinsically Safe Fire Alarm Sounder White Beacon Type B (Red) (HSG6890SA base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3:2001 for the following tones<ul style="list-style-type: none">- Tone 1 970Hz Continuous- Tone 2 800Hz/970Hz @ 2Hz- Tone 3 800Hz 970Hz @ 1Hz- Tone 6 554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)- Tone 7 500 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000 Dutch Slow Whoop)- Tone 13 1200Hz 500Hz @ 1Hz (DIN 33 404)	717p/02
Bases:		
PSO-0001	Shallow base (red)	
PSO-0006	Shallow base (white)	
PSO-0003	Deep base (red)	
PSO-0007	Deep base (white)	
PSO-0001 / 18-185856-2	Red shallow base	
PSO-0017 / HSG6918	Red deep base	
PSO-0006 / 18-186049-2	White shallow base	
PSO-0018 / HSG6917	White deep base	
PSO-0022	Sonos Grey Shallow Base	
HSG6890SA	Time Saver Base	

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Certificate No: 681g-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Certificate No: 378e-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificate No: 681at-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products		LPCB Ref. No.
802SB	Analogue Addressable Type A Sounder Base	681g/01

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Certificated Products	LPCB Ref. No.
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Fast Sweep Dutch Slow Whoop 500Hz to 1200Hz Temporal 3 880Hz Analogue Addressable Type A Sounder Base</p>	681g/01
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Fast Sweep Dutch Slow Whoop 500Hz to 1200Hz Temporal 3 880Hz Type A Sounder Base</p>	681g/02
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz Type A Diode Sounder Base</p>	681g/03
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz Type A Sounder Base</p>	681g/04
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz Type A Diode Sounder Base</p>	681g/05
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz Analogue Addressable Type A Sounder Base</p>	681g/06
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: Temporal 3 880Hz Dutch Slow Whoop 500Hz to 1200Hz Continuous 880Hz Symphoni MX Addressable Loop Powered Type A Sounder (Red) with Short Circuit Isolator</p>	378e/01
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz FireClass Addressable Loop Powered Type A Sounder (Red) with Short Circuit Isolator</p>	378e/01
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz Symphoni MX Addressable Loop Powered Type A Sounder (White) with Short Circuit Isolator</p>	378e/02
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz FireClass Addressable Loop Powered Type A Sounder (White) with Short Circuit Isolator</p>	378e/02
<p>Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz Symphoni MX Addressable Loop Powered Type B Sounder (Red) with Short Circuit</p>	378e/03

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Certificated Products		LPCB Ref. No.
	Isolator Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	
FC410LPSY	FireClass Addressable Loop Powered Type B Sounder (Red) with Short Circuit Isolator Note: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/03
LPAV800-R	Symphoni MX Addressable Loop Powered Type A Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/04
FC410LPAVR	2. The beacon function of this device is not included in the scope of this approval FireClass Addressable Loop Powered Type A Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/04
LPAV800-W	2. The beacon function of this device is not included in the scope of this approval Symphoni MX Addressable Loop Powered Type A Sounder Beacon (White) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/05
FC410LPAVW	2. The beacon function of this device is not included in the scope of this approval FireClass Addressable Loop Powered Type A Sounder Beacon (White) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/05
LPAV865	2. The beacon function of this device is not included in the scope of this approval Symphoni MX Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/06
FC410LPAV	2. The beacon function of this device is not included in the scope of this approval FireClass Addressable Loop Powered Type B Sounder Beacon (Red) with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop Sweep 2 - 7Hz Fast Sweep 6 - Temporal 3 (ISO8201) 9 - Continuous 850Hz	378e/06
FC430LPASB	2. The beacon function of this device is not included in the scope of this approval FireClass Loop Powered Sounder Beacon Base with Short Circuit Isolator Notes: 1. Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop, 500 to 1200Hz	378e/07

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	<ul style="list-style-type: none"> 2 - 7Hz Fast Sweep, 800 to 970Hz 3 - BS 1Hz Sweep, 800 to 970Hz 4 - 2 Tone, 660 / 880Hz 5 - Temporal 4, 880Hz 6 - Australian Sound (AS 1670.4) Temporal 3 type tone, 500 to 1200Hz 7 - March Time Beep, 880Hz 8 - Continuous, 970Hz 9 - DIN 1Hz Sweep, 1200 to 500Hz 10 - Banshee LF Buzzer, 800 to 950Hz 11 - 3Hz Banshee Fast Sweep, 800 to 950Hz 12 - 9Hz Banshee Fast Sweep, 800 to 950Hz 13 - Alternating (NF-S 32.001), 554 / 440Hz 14 - Yodalarm, 800 / 1000Hz 15 - Conventional Bell, 1450Hz 	
FC430LPSB	<p>2. The beacon function of this device is not included in the scope of this approval. FireClass Loop Powered Sounder Base with Short Circuit Isolator</p> <p>Note:</p> <p>1. Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> 1 - Dutch Slow Whoop, 500 to 1200Hz 2 - 7Hz Fast Sweep, 800 to 970Hz 3 - BS 1Hz Sweep, 800 to 970Hz 4 - 2 Tone, 660 / 880Hz 5 - Temporal 4, 880Hz 6 - Australian Sound (AS 1670.4) Temporal 3 type tone, 500 to 1200Hz 7 - March Time Beep, 880Hz 8 - Continuous, 970Hz 9 - DIN 1Hz Sweep, 1200 to 500Hz 10 - Banshee LF Buzzer, 800 to 950Hz 11 - 3Hz Banshee Fast Sweep, 800 to 950Hz 12 - 9Hz Banshee Fast Sweep, 800 to 950Hz 13 - Alternating (NF-S 32.001), 554 / 440Hz 14 - Yodalarm, 800 / 1000Hz 15 - Conventional Bell, 1450Hz 	378e/08
P80SB	<p>Zettler Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing (576.080.002)</p> <p>Note:</p> <p>Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz 	681at/01
FC440SB	<p>FireClass Addressable Type A Indoor Base Sounder with Short Circuit Isolator, White Housing (576.440.002)</p> <p>Note:</p> <p>Meets the requirements of EN 54-3 at the following tones:</p> <ul style="list-style-type: none"> 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz 	681at/01
4098-5273	<p>Simplex Type A Indoor Sounder Base Sounder with Short Circuit Isolator, White Housing</p>	681at/01

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	<p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz</p>	
P80AIB	<p>Zettler Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing (576.080.010)</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz</p>	681at/02
FC440AIB	<p>FireClass Addressable Type A Indoor Base Sounder Beacon VID with Short Circuit Isolator (Red Flash), Clear Housing (576.080.010)</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz 14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz</p>	681at/02
4098-5274	<p>Simplex Addressable Type A Indoor Sounder/Beacon Base with Short Circuit Isolator Clear Housing</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - DIN 1Hz Sweep 1200-500Hz 10 - Banshee LF Buzzer 800-950Hz 11 - 3Hz Banshee 800-950Hz 12 - 9Hz Banshee 800-950Hz 13 - Alternating 554/440Hz</p>	681at/02

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Certificated Products	LPCB Ref. No.
<p>80DSB</p> <p>14 - Yodalarm 800/1000Hz 15 - Conventional Bell 1450Hz Zettler Type A Indoor Detector Base Sounder, White Housing (576.080.001) Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz</p>	681g/07
<p>FC440DSB</p> <p>FireClass Type A Indoor Detector Base Sounder, White Housing (576.440.001) Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz</p>	681g/07
<p>P80SW</p> <p>Zettler Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing (576.080.003) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/03
<p>FC440SW</p> <p>FireClass Addressable Type A Wall Sounder with Short Circuit Isolator, White Housing (576.440.003) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/03
<p>P80SR</p> <p>Zettler Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing (576.080.004) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz</p>	681at/04

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	3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz	
FC440SR	FireClass Addressable Type A Indoor Wall Sounder with Sort Circuit Isolator, Red Housing (576.440.004) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz	681at/04
P80AIW	Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing (576.080.011) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz	681at/05
FC440AIW	FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, White Housing (576.440.011) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz	681at/05

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P80AIR	681at/06
<p>15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz Zettler Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing (576.080.012) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	
FC440AIR	681at/06
<p>FireClass Addressable Type A Indoor Wall Sounder Beacon VID with Short Circuit Isolator, Red Housing (576.440.012) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	
4906-5223	681at/06
<p>Simplex Type A Indoor Sounder Beacon Red with Short Circuit Isolator Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	
P85SR	681at/07
<p>Zettler Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing (576.080.005) Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz</p>	

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FC445SR	<p>8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p> <p>FireClass Addressable Type B Outdoor Wall Sounder IP with Short Circuit Isolator, Red Housing (576.440.005)</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/07
4906-5222	<p>Simplex Type B Outdoor Sounder IP Red with Short Circuit Isolator</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/07
P85AIR	<p>Zettler Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing (576.080.013)</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/08
FC445AIR	<p>FireClass Addressable Type B Outdoor Wall Sounder Beacon VID IP with Short Circuit Isolator, Red Housing (576.440.013)</p> <p>Note: Meets the requirements of EN 54-3 at the following tones:</p>	681at/08

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No.

4098-5278	<p>1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p> <p>Simplex Type A Indoor Non-Addressable Sounder Base, White Housing (B-CAP)</p> <p>Note: 1. Meets the requirements of EN 54-3 at the following tones: DIN 1Hz Sweep 1200Hz to 500Hz Dutch Slow Whoop 500Hz to 1200Hz Temporal 4 880Hz BS 1Hz Sweep 800Hz to 970Hz March Time Beep 880Hz 7Hz Fast Sweep 800Hz to 970Hz Temporal 3 880Hz 2 Tone 660Hz/880Hz Continuous 970Hz</p>	681g/07
4906-5225	<p>Simplex Addressable Type A Indoor Wall Sounder White with Short Circuit Isolator</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/03
4906-5224	<p>Simplex Addressable Type A Indoor Wall Sounder Red with Short Circuit Isolator</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz 4 - 2 Tone 680/800Hz 5 - Temporal 4 880Hz 6 - Temporal 3 880Hz 7 - March Time Beep 880Hz 8 - Continuous 970 970Hz 9 - Continuous 850 850Hz 10 - DIN 1Hz Sweep 1200-500Hz 11 - Banshee LF Buzzer 800-950Hz 12 - 3Hz Banshee 800-950Hz 13 - 9Hz Banshee 800-950Hz 14 - Alternating 554/440Hz 15 - Yodalarm 800/1000Hz 16 - Conventional Bell 1450Hz</p>	681at/04
4906-5226	<p>Simplex Type A Indoor Sounder Beacon White with Short Circuit Isolator</p> <p>Note: Meets the requirements of EN 54-3 at the following tones: 1 - Dutch Slow Whoop 500-1200Hz 2 - 7Hz Fast Sweep 800-970Hz 3 - BS 1Hz Sweep 800-970Hz</p>	681at/05

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

- 4 - 2 Tone 680/800Hz
- 5 - Temporal 4 880Hz
- 6 - Temporal 3 880Hz
- 7 - March Time Beep 880Hz
- 8 - Continuous 970 970Hz
- 9 - Continuous 850 850Hz
- 10 - DIN 1Hz Sweep 1200-500Hz
- 11 - Banshee LF Buzzer 800-950Hz
- 12 - 3Hz Banshee 800-950Hz
- 13 - 9Hz Banshee 800-950Hz
- 14 - Alternating 554/440Hz
- 15 - Yodalarm 800/1000Hz
- 16 - Conventional Bell 1450Hz

LPCB Ref.
No.

Accessories:
B-CAP

Certificate No: 378k-(cl-1) to EN 54-23:2010, EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2005

Certificated Products

LPBS800-R

L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - Red Housing

Notes:

1. The VAD is rated as Open Class (refer to installation guide)
2. The VAD is a Type A device and includes synchronisation.
3. VAD Light Colour - White Flashing Light
4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz
5. Meets the requirements of EN 54-3 at the following tones:
 - 1 - Dutch Slow Whoop 500Hz-1200Hz
 - 2 - 7Hz Fast Sweep 800Hz-970Hz
 - 6 - Temporal 3 880Hz
 - 9 - Continuous 850Hz

LPCB Ref.
No.
378k/01

LPBS800-W

L/P Beacon Symphoni Type A Sounder with Short Circuit Isolator - White Housing

Notes:

1. The VAD is rated as Open Class (refer to installation guide)
2. The VAD is a Type A device and includes synchronisation.
3. VAD Light Colour - White Flashing Light
4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz
5. Meets the requirements of EN 54-3 at the following tones:
 - 1 - Dutch Slow Whoop 500Hz-1200Hz
 - 2 - 7Hz Fast Sweep 800Hz-970Hz
 - 6 - Temporal 3 880Hz
 - 9 - Continuous 850Hz

378k/02

LPBS865 LP

Beacon Symphoni Type B Sounder IP65 with Short Circuit Isolator - Red Housing

Notes:

1. The VAD is rated as Open Class (refer to installation guide)
2. The VAD is a Type B device and includes synchronisation.
3. VAD Light Colour - White Flashing Light
4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz
5. Meets the requirements of EN 54-3 at the following tones:
 - 1 - Dutch Slow Whoop 500Hz-1200Hz
 - 2 - 7Hz Fast Sweep 800Hz-970Hz
 - 6 - Temporal 3 880Hz
 - 9 - Continuous 850Hz

378k/03

LPBS3000

Loop Powered Beacon Sounder Base with Short Circuit Isolator (Type A Mounting Flange)

Notes:

1. The VAD is rated as Open Class (refer to installation guide)
2. The VAD includes synchronisation.
3. VAD Light Colour - White Flashing Light
4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz
5. Meets the requirements of EN 54-3 at the following tones:
 - 1 - Dutch Slow Whoop 500Hz-1200Hz
 - 2 - 7Hz Fast Sweep 800Hz-970Hz
 - 3 - BS 1Hz Sweep 800Hz-970Hz
 - 4 - 2 Tone 660Hz/880Hz
 - 5 - Temporal 4 880Hz
 - 6 - Australian Sound (AS 1670.4) 500Hz-1200Hz
 - 7 - March Time Beep 880Hz
 - 8 - Continuous 970Hz
 - 9 - DIN 1Hz Sweep 1200Hz-500Hz

378k/04

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p style="text-align: center;">10 - Banshee LF Buzzer 800Hz-950Hz 11 - 3Hz Banshee Fast Sweep 800Hz-950Hz 12 - 9Hz Banshee Fast Sweep 800Hz-950Hz 13 - Alternating (NF-S 32.001) 554Hz/440Hz 14 - Yodalarm 800Hz/1000Hz 15 - Conventional Bell 1450Hz</p>	
<p>FC410LPBS-R FireClass Loop Powered Type A Beacon Sounder with Short Circuit Isolator - Red Housing</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD is a Type A device and includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 6 - Temporal 3 880Hz 9 - Continuous 850 850Hz 	378k/05
<p>FC410LPBS-W FireClass Loop Powered Type A Beacon/Sounder with Short Circuit Isolator - White Housing</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD is a Type A device and includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 6 - Temporal 3 880Hz 9 - Continuous 850 850Hz 	378k/06
<p>FC410LPBS LP FireClass Loop Powered Type B Beacon/Sounder (IP65) with Short Circuit Isolator</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD is a Type B device and includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 6 - Temporal 3 880Hz 9 - Continuous 850 850Hz 	378k/07
<p>FC430LPBSB LP FireClass Loop Powered Beacon Sounder Base with Short Circuit isolator (Type A Mounting Flange)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The VAD is rated as Open Class (refer to installation guide) 2. The VAD includes synchronisation. 3. VAD Light Colour - White Flashing Light 4. VAD Flash Rate - Fast flash 1Hz, or slow flash 0.5Hz 5. Meets the requirements of EN 54-3 at the following tones: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop 500Hz-1200Hz 2 - 7Hz Fast Sweep 800Hz-970Hz 3 - BS 1Hz Sweep 800Hz-970Hz 4 - 2 Tone 660Hz/880Hz 5 - Temporal 4 880Hz 6 - Australian Sound (AS 1670.4) 500Hz-1200Hz 7 - March Time Beep 880Hz 8 - Continuous 970Hz 9 - DIN 1Hz Sweep 1200Hz-500Hz 10 - Banshee LF Buzzer 800Hz-950Hz 11 - 3Hz Banshee Fast Sweep 800Hz-950Hz 12 - 9Hz Banshee Fast Sweep 800Hz-950Hz 13 - Alternating (NF-S 32.001) 554Hz/440Hz 14 - Yodalarm 800Hz/1000Hz 15 - Conventional Bell 1450Hz 	378k/08

Certificate No: 681aw-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006, EN 54-23:2010, EN 54-17:2005

Certificated Products	LPCB Ref. No.
P80AVW Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator,	681aw/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

White Housing (576.080.007), (S-BOX, A-BOX)

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Category W-2.4-7.5 (High Beacon Intensity)
 - Open Class O-1.6-5.1 (Low Beacon Intensity)
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950Hz
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
 - 15 - Yodalarm, Alternating 800 / 1000Hz
 - 16 - Continuous Bell 1450Hz

FC440AVW

FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, White Housing (576.440.007) (S-BOX, A-BOX)

681aw/01

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Category W-2.4-7.5 (High Beacon Intensity)
 - Open Class O-1.6-5.1 (Low Beacon Intensity)
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950HZ
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
 - 15 - Yodalarm, Alternating 800 / 1000Hz
 - 16 - Continuous Bell 1450Hz

P80AVR

Zettler Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing (576.080.008) (S-BOX, A-BOX)

681aw/02

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Category W-2.4-7.5 (High Beacon Intensity)
 - Open Class O-1.6-5.1 (Low Beacon Intensity)
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950HZ

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products	LPCB Ref. No.
<p style="text-align: center;">12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz</p> <p>FC440AVR</p> <p>FireClass Addressable Type A Indoor Wall Sounder Beacon VAD with Short Circuit Isolator, Red Housing (576.440.008) (S-BOX, A-BOX)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950Hz 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 	681aw/02
<p>P85AVR</p> <p>Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing (576.080.009)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 4 - 2 Tone, Alternating 660 / 880Hz 5 - Temporal 4, Intermittent 880Hz 6 - Temporal 3 (ISO 8201), Intermittent 880Hz 7 - March Time Beep, Intermittent 880Hz 8 - Continuous 970, 970Hz 9 - Continuous 850, 850Hz 10 - DIN 1Hz Sweep, 1200-500Hz 11 - Banshee LF Buzzer, Sweep 800-950Hz 12 - 3Hz Banshee Fast Sweep, 800-950Hz 13 - 9Hz Banshee Fast Sweep, 800-950Hz 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz 15 - Yodalarm, Alternating 800 / 1000Hz 16 - Continuous Bell 1450Hz 	681aw/03
<p>FC445AVR</p> <p>FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD Weatherproof with Short Circuit Isolator, Red Housing (576.440.009)</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Meets the requirements of EN 54-23 for the following: <ul style="list-style-type: none"> - Category W-2.4-7.5 (High Beacon Intensity) - Open Class O-1.6-5.1 (Low Beacon Intensity) - Flash rate 0.5Hz and 1Hz - Operating voltage range 20-40 VDC 2. Meets the requirements of EN 54-3 for the following: <ol style="list-style-type: none"> 1 - Dutch Slow Whoop, Sweep 500-1200Hz 2 - 7Hz Fast Sweep, 800-970Hz 3 - BS 1Hz Sweep, 800-970Hz 	681aw/03

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

- 4 - 2 Tone, Alternating 660 / 880Hz
- 5 - Temporal 4, Intermittent 880Hz
- 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
- 7 - March Time Beep, Intermittent 880Hz
- 8 - Continuous 970, 970Hz
- 9 - Continuous 850, 850Hz
- 10 - DIN 1Hz Sweep, 1200-500Hz
- 11 - Banshee LF Buzzer, Sweep 800-950Hz
- 12 - 3Hz Banshee Fast Sweep, 800-950Hz
- 13 - 9Hz Banshee Fast Sweep, 800-950Hz
- 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
- 15 - Yodalarm, Alternating 800 / 1000Hz
- 16 - Continuous Bell 1450Hz

FC445CAV	<p>3. Ingress Protection IP55 FireClass Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing (576.440.017)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Open Class O-1.6-5.1- Flash rate 0.5Hz and 1Hz- Operating voltage range 20-40 VDC <p>2. Meets the requirements of EN 54-3 for the following:</p> <ul style="list-style-type: none">1 - Dutch Slow Whoop, Sweep 500-1200Hz2 - 7Hz Fast Sweep, 800-970Hz3 - BS 1Hz Sweep, 800-970Hz4 - 2 Tone, Alternating 660 / 880Hz5 - Temporal 4, Intermittent 880Hz6 - Temporal 3 (ISO 8201), Intermittent 880Hz7 - March Time Beep, Intermittent 880Hz8 - Continuous 970, 970Hz9 - Continuous 850, 850Hz10 - DIN 1Hz Sweep, 1200-500Hz11 - Banshee LF Buzzer, Sweep 800-950Hz12 - 3Hz Banshee Fast Sweep, 800-950Hz13 - 9Hz Banshee Fast Sweep, 800-950Hz14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz15 - Yodalarm, Alternating 800 / 1000Hz16 - Continuous Bell 1450Hz	681aw/04
P80AVB	<p>3. Ingress Protection IP55 Zettler Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing (576.080.006) (B-CAP, A-CON)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-23 for the following:</p> <ul style="list-style-type: none">- Category C-3-8 (High Beacon Intensity)- Open Class O-2.1-7.0 (Low Beacon Intensity)- Flash rate 0.5Hz and 1Hz- Operating voltage range 20-40 VDC <p>2. Meets the requirements of EN 54-3 for the following:</p> <ul style="list-style-type: none">1 - Dutch Slow Whoop, Sweep 500-1200Hz2 - 7Hz Fast Sweep, 800-970Hz3 - BS 1Hz Sweep, 800-970Hz4 - 2 Tone, Alternating 660 / 880Hz5 - Temporal 4, Intermittent 880Hz6 - Temporal 3 (ISO 8201), Intermittent 880Hz7 - March Time Beep, Intermittent 880Hz8 - Continuous 970, 970Hz9 - Continuous 850, 850Hz10 - DIN 1Hz Sweep, 1200-500Hz11 - Banshee LF Buzzer, Sweep 800-950Hz12 - 3Hz Banshee Fast Sweep, 800-950Hz13 - 9Hz Banshee Fast Sweep, 800-950Hz14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz15 - Yodalarm, Alternating 800 / 1000Hz16 - Continuous Bell 1450Hz	681aw/05
FC440AVB	<p>FireClass Addressable Type A Indoor Base Sounder Beacon VAD Standard Power with Short Circuit Isolator, Clear Housing (576.440.006) (B-CAP, A-CON)</p> <p>Notes:</p> <p>1. Meets the requirements of EN 54-23 for the following:</p>	681aw/05

Certificated Products

**LPCB Ref.
No.**

- Category C-3-8 (High Beacon Intensity)
- Open Class O-2.1-7.0 (Low Beacon Intensity)
- Flash rate 0.5Hz and 1Hz
- Operating voltage range 20-40 VDC

2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950HZ
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
 - 15 - Yodalarm, Alternating 800 / 1000Hz
 - 16 - Continuous Bell 1450Hz

P81AVB

Zettler Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing (576.080.014) (B-CAP, A-CON)

681aw/06

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Category C-3-15 (High Beacon Intensity)
 - Open Class O-2.7-8.5 (Low Beacon Intensity)
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950HZ
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
 - 15 - Yodalarm, Alternating 800 / 1000Hz
 - 16 - Continuous Bell 1450Hz

FC441AVB

FireClass Addressable Type A Base Sounder Beacon VAD High Power with Short Circuit Isolator, Clear Housing (576.440.014) (B-CAP, A-CON)

681aw/06

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Category C-3-15 (High Beacon Intensity)
 - Open Class O-2.7-8.5 (Low Beacon Intensity)
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950HZ
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

FC440CAVB
15 - Yodalarm, Alternating 800 / 1000Hz
16 - Continuous Bell 1450Hz
FireClass Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing (576.440.016) (B-CAP, A-CON) 681aw/07

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Open Class O-1.8-6.2
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950Hz
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
 - 15 - Yodalarm, Alternating 800 / 1000Hz
 - 16 - Continuous Bell 1450Hz

P85CAV
Zettler Addressable Type B Outdoor Wall Sounder Beacon VAD BC with Short Circuit Isolator, Red Housing (576.080.017) 681aw/04

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Open Class O-1.6-5.1
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz
 - 8 - Continuous 970, 970Hz
 - 9 - Continuous 850, 850Hz
 - 10 - DIN 1Hz Sweep, 1200-500Hz
 - 11 - Banshee LF Buzzer, Sweep 800-950Hz
 - 12 - 3Hz Banshee Fast Sweep, 800-950Hz
 - 13 - 9Hz Banshee Fast Sweep, 800-950Hz
 - 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
 - 15 - Yodalarm, Alternating 800 / 1000Hz
 - 16 - Continuous Bell 1450Hz

P80CAVB
3. Ingress Protection IP55
Zettler Addressable Type A Indoor Base Sounder Beacon VAD BC with Short Circuit Isolator, Clear Housing (576.080.016) (B-CAP, A-CON) 681aw/07

Notes:

1. Meets the requirements of EN 54-23 for the following:
 - Open Class O-1.8-6.2
 - Flash rate 0.5Hz and 1Hz
 - Operating voltage range 20-40 VDC
2. Meets the requirements of EN 54-3 for the following:
 - 1 - Dutch Slow Whoop, Sweep 500-1200Hz
 - 2 - 7Hz Fast Sweep, 800-970Hz
 - 3 - BS 1Hz Sweep, 800-970Hz
 - 4 - 2 Tone, Alternating 660 / 880Hz
 - 5 - Temporal 4, Intermittent 880Hz
 - 6 - Temporal 3 (ISO 8201), Intermittent 880Hz
 - 7 - March Time Beep, Intermittent 880Hz

Certificated ProductsLPCB Ref.
No.

- 8 - Continuous 970, 970Hz
- 9 - Continuous 850, 850Hz
- 10 - DIN 1Hz Sweep, 1200-500Hz
- 11 - Banshee LF Buzzer, Sweep 800-950Hz
- 12 - 3Hz Banshee Fast Sweep, 800-950Hz
- 13 - 9Hz Banshee Fast Sweep, 800-950Hz
- 14 - Alternating (NF-S 32.001), Alternating 554 / 440Hz
- 15 - Yodalarm, Alternating 800 / 1000Hz
- 16 - Continuous Bell 1450Hz

Accessories

- S-BOX Surface Backbox for Indoor Wall Sounder VAD (Red)
- A-BOX Flush Backbox Adaptor for Indoor Wall Sounder (Metal)
- B-CAP Blanking Cap for Sounder VAD (White)
- A-CON Conduit Adaptor for Sounder VAD (White)

UTC Fire & Security Inc. Trading as Edwards Systems Technology

8985 Town Center Parkway, Bradenton, Florida 34202, USA

Tel: 941-739-4214 • Fax:

E-mail: sean.hawes@carrier.com • Website: www.ccs.utc.com

Certificate No: 262w to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificate No: 262aa to EN 54-3:2001 + A1:2002 + A2:2006 and EN 54-23:2010

Certificate No: 262ac to EN 54-23:2010

Certificate No: 904f-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Certificated ProductsLPCB Ref.
No.

G1x-HD-E	Genesis Temporal Horn Notes: <ol style="list-style-type: none"> 1. Approved with back boxes G1B-MP and 27193-16 2. Meets the requirements of EN 54-3 at all volumes and the following tones:- Continuous 3200Hz (interrupted at 40Hz) Temporal 3200Hz (interrupted at 40Hz); 2 pulses 0.5s on / 0.5s off, 1 pulse 0.5s on / 1.5s off, repeat. 3. x denotes housing colours Blank = White housing R = Red housing F = White housing with Fire Marking RF = Red housing with Fire Marking. 	262w/02
G1x-HDVM-E	Genesis Type A Indoor Temporal Sounder / Beacon Notes: <ol style="list-style-type: none"> 1. Approved with backboxes G1xB-MP and 27193-xx 2. Meets the requirements of EN 54-3 at the following tones:- Continuous 3200Hz (interrupted at 40Hz) Temporal 3200Hz (interrupted at 40Hz); 2 pulses 0.5s on / 0.5s off, 1 pulse 0.5s on / 1.5s off, repeat 3. The wall mounted VAD meets the requirements of EN 54-23:2010 for the following: - Category (light pattern details): @15cd (W-3.0-2.8 or W-2.5-3.3) @30cd (W-4.4-4.5) @75cd (W-6.0-7.5) @110cd (W-6.5-8.4) - Synchronization Flash rate 1Hz 4. x denotes housing colours Blank = White housing R = Red housing F = White housing with Fire Marking RF = Red housing with Fire Marking 	262aa/01
G1x-VM-E	Genesis Type A Indoor Temporal Beacon Notes: <ol style="list-style-type: none"> 1. Approved with backboxes G1xB-MP and 27193-xx 2. The wall mounted VAD meets the requirements of EN 54-23:2010 	262ac/01

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

LPCB Ref.
No.

SIGA-AB4GI	<p>for the following:</p> <ul style="list-style-type: none">- Category (light pattern details):<ul style="list-style-type: none">@15cd (W-3.0-2.8 or W-2.5-3.3)@30cd (W-4.4-4.5)@75cd (W-6.0-7.5)@110cd (W-6.5-8.4)- Synchronization<ul style="list-style-type: none">Flash rate 1Hz <p>3. x denotes housing colours</p> <ul style="list-style-type: none">Blank = White housingR = Red housingF = White housing with Fire MarkingRF = Red housing with Fire Marking <p>Sounder Base</p> <p>Notes:</p> <ol style="list-style-type: none">1. Certified for use with fire detector models - SIGA-IPHSI, SIGA-PHSI, SIGA-PSI, SIGA-IS and SIGA-HRSI.2. Meets the requirements of EN 54-3 with steady and temporal tones and operating voltages from 16-33 VDC.3. Certified for use with AB4G-SB Surface mounting box.4. This is a Type A device.	904f/01
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Ancillaries

G1B-MP Back box G1 series, white
G1RB-MP Red Back box, G1 Series, plastic
27193-16 Back box, surface white
27193-11 Red back box, Surface, Metal
AB4G-SB Surface Mounting Box

V-GREAT GLOBAL CORPORATION

Second Floor, Capital City, Independence Avenue, P O Box 1008, Victoria, Mahe, Seychelles

Tel: 008613581542023

E-mail: vgreatech@hotmail.com

Certificate No: 1174c-(cl-1) to EN 54-3:2001 + A1:2002 + A2:2006

Audible Warning Device

Certificated Products

LPCB Ref.
No.

VG-6734	<p>Conventional Type A Sounder Strobe (VG-6711 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3 and approved at the following tones:<ul style="list-style-type: none">1) Tone 01, 2400Hz - 2900Hz @ 3 Hz2) Tone 10, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off2. The strobe function is not included within the scope of this approval	1174c/01
VG-6737	<p>Addressable Type A Indoor Digital Sounder Beacon (VG-6619 Base)</p> <p>Notes:</p> <ol style="list-style-type: none">1. Meets the requirements of EN 54-3 and approved at the following tones:<ul style="list-style-type: none">1) Tone 00, 2400Hz - 2900Hz @ 3Hz2) Tone 01, 2400Hz - 2900Hz @ 9Hz3) Tone 08, 500Hz - 1200Hz x 3, 3.5s on / 0.5s off4) Tone 14, 1500Hz - 2700Hz @ 3Hz2. The beacon function is not included within the scope of this approval	1174c/02

Bases:

VG-6711 Standard base
VG-6619 Mounting base

Vimpex Limited

Star Lane, Great Wakering, Essex SS3 0PJ, United Kingdom
Tel: +44 (0) 1702 216999 • Fax: +44 (0) 1702 216699
E-mail: sales@vimpex.co.uk • Website: www.vimpex.co.uk

Certificate No: 456a to EN 54-3:2001 + A1:2002 + A2:2006

Certificated Products		LPCB Ref. No.
MBF-6EV-24	6" (150mm) Type A 24Vdc Fire Alarm Bell with Aluminium Gong (Indoor)	456a/01
MBF-8EV	8" (200mm) Type A 24Vdc Fire Alarm Bell with Aluminium Gong (Indoor)	456a/02
MBA-6 + BBX-4	6" (150mm) Type B Fire Alarm Bell with Aluminium Gong complete with Back Box (Outdoor)	456a/04
MBA-8 + BBX-4	8" (200mm) Type B Fire Alarm Bell with Aluminium Gong complete with Back Box (Outdoor)	456a/05

VIVA ELEKTRONIK SISTEMLER

Rasimpasa Mah. Muhendis Sari Ali, Sok. Birlik Han No:3/1, Kadikoy, ISTANBUL 34716, Turkey
Tel: 0090 549 797 70 80
E-mail: info@vivafire.com • Website: www.vivafire.com

Certificate No: 1426a-(cl-4) to EN 54-3: 2001 + A1: 2002 + A2: 2006 EN 54-23: 2010

Certificated Products		LPCB Ref. No.
VI 100-SB	Conventional Sounder Beacon (DZ-9091K Base) Notes: 1) Meets the requirements of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/01
VI 200-SB	Addressable Sounder Beacon (DZ-9091 Base) Notes: 1)Meets the requirement of EN 54-23 at the following: - Category C-3-8 + W-2.4-6 - Flash Rate 0.5Hz - One Mode (Light output synchronization) - Flash Colour White - For wall and ceiling mounting 2) Meets the requirements of EN 54-3 at the following tone: - Tone 1: 667Hz - 2000Hz@0.22Hz	1426a/02

Bases
DZ-9091K
DZ-9091

Yingkou Tiancheng Fire Protection Equipment Co., Ltd

No. 11-2, Kechechang Xili,, Xishi District, Yingkou, Pilot Free Trade Zone, Liaoning 115004, China
Tel: 0417-2607119 • Fax: 0417-2867119
E-mail: wayne@tcfiretech.com • Website: www.tcfiretech.com

Certificate No: 1450a to EN 54-3:2001 + A1: 2002 + A2: 2006

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

TCSG5266 Addressable Sounder Strobe Type A (Base with 86H50 Embedded Box)
Notes:
Meets the requirements of EN 54-3: 2001 for the following tones
1) One Default Tone 3.5s ~ 4.5s
The Beacon function is not approved to EN 54-23

LPCB Ref. No.
1450a/01

Base
Base with 86H50 Embedded Box

Zeta Alarms Limited

Detection House, 72-78 Morfa Road, Swansea SA1 2EN, United Kingdom
Tel: +44 (0)1792 455175 • Fax: +44 (0)1792 455176
E-mail: ghasan@zetaalarmsystems.com • Website: www.zetaalarmsystems.com

Certificate No: 330r to EN 54-3: 2001 + A1: 2002 + A2: 2006
Certificate No: 330s to EN 54-3:2001 +A1:2002 +A2:2006 & EN54-23: 2010
Certificate No: 1374a-(cl-1) to EN 54-3: 2001 + A1: 2002 + A2: 2006

Certificated Products

		LPCB Ref. No.
MKII-AXT/R	Xtratone Addressable Type A Indoor Sounder (Red) <i>Note:</i> <i>1. Meets the requirements of EN54-3 for the following tones:</i> <i>1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms)</i> <i>2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat</i>	330r/01
MKII-SSB	Fyreye II Sandwich Type A Indoor Sounder Base (MKII-AOP, MKII-AHR, MKII-AHF & MKII-AOH detectors & MKII-CB base) <i>Note:</i> <i>1. Meets the requirements of EN54-3 for the following tones:</i> <i>1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms)</i> <i>2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat</i>	330r/02
MKII-AXT/W	Xtratone Addressable Type A Indoor Sounder (White) <i>Note:</i> <i>1. Meets the requirements of EN54-3 for the following tones:</i> <i>1) Alternating 800Hz/970Hz, 1Hz (500ms-500ms)</i> <i>2) Slow whoop 500Hz - 1200Hz, 3.5s sweep 0.5s silence, then repeat</i>	330r/03
ZXTB/R	Conventional Xtratone Indoor Sounder Beacon, Red Plastic, White Flash <i>Notes:</i> <i>1. Meets the requirements of EN 54-3 at the following tones:</i> <i>- Tone 0: 800Hz and 970Hz, 500ms each</i> <i>- Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop</i> <i>2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following:</i> <i>- Coverage volume W 3.4 - 7.0</i> <i>- Flash rate 0.5Hz</i> <i>- White LED</i>	330s/01
ZXTB/W	Conventional Xtratone Indoor Sounder Beacon, White Plastic, White Flash <i>Notes:</i> <i>1. Meets the requirements of EN 54-3 at the following tones:</i> <i>- Tone 0: 800Hz and 970Hz, 500ms each</i> <i>- Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop</i> <i>2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following:</i> <i>- Coverage volume W 3.4 - 7.0</i> <i>- Flash rate 0.5Hz</i> <i>- White LED</i>	330s/02
ZRPB/R	Conventional Raptor Outdoor Sounder Beacon, Red Plastic, White Flash <i>Notes:</i> <i>1. Meets the requirements of EN 54-3 at the following tones:</i> <i>- Tone 0: 800Hz and 970Hz, 500ms each</i> <i>- Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop</i> <i>2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following:</i> <i>- Coverage volume W 5.1 - 7.25</i> <i>- Flash rate 0.5Hz</i> <i>- White LED</i>	330s/03

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products		LPCB Ref. No.
ZRPB/W	Conventional Raptor Outdoor Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 7: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 5.1 - 7.25 - Flash rate 0.5Hz - White LED	330s/04
ZTB6B/24	6 (150mm) Type A 24 Vdc Fire Alarm Bell with Aluminium Gong (Indoor)	1374a/01
ZTB8B	8 (200mm) Type A 24 Vdc Fire Alarm Bell with Aluminium Gong (Indoor)	1374a/02
ZTB6B/WP	6 (150mm) Type B Fire Alarm Bell with Aluminium Gong complete with Back Box (Outdoor)	1374a/03
ZTB8B/WP	8 (200mm) Type B Fire Alarm Bell with Aluminium Gong complete with Back Box (Outdoor)	1374a/04
MKII-AXT/R	Zeta Addressable Xtratone Type A Indoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/08
MKII-AXT/W	Zeta Addressable Xtratone Type A Indoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/09
ZRAP/R	Zeta Addressable Raptor Type B Outdoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/10
ZRAP/W	Zeta Addressable Raptor Type B Outdoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/11
MKII-AXTB/R	Zeta Addressable Xtratone Type A Wall Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.1 - 9.1 - Flash rate 0.5Hz - White LED	330s/05
MKII-AXTB/W	Zeta Addressable Xtratone Type A Wall Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type A VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.1 -9.1 - Flash rate 0.5Hz - White LED	330s/06
ZRAPB/R	Zeta Addressable Raptor Type B Sounder Beacon, Red Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the following: - Coverage volume W 3.0 - 8.7 - Flash rate 0.5Hz - White LED	330s/07
ZRAPB/W	Zeta Addressable Raptor Type B Sounder Beacon, White Plastic, White Flash Notes: 1. Meets the requirements of EN 54-3 at the following tones: - Tone 0: 800Hz and 970Hz, 500ms each - Tone 8: 500 to 1200Hz -3.5s sweep, 0.5 s silence, repeat Dutch Slow Whoop 2. The wall mounted, Type B VAD meets the requirements of EN 54-23 for the	330s/08

PART 1: SECTION 7

ALARM WARNING DEVICES

Certificated Products

following:

- Coverage volume W 3.0 - 8.7
- Flash rate 0.5Hz
- White LED

LPCB Ref.
No.

Bases/Detectors

MKII-CB Shallow base
MKII-AOP Fyreye II Addressable optical smoke detector
MKII-AHR Fyreye II Addressable A1R heat detector
MKII-AHF Fyreye II Addressable A2S heat detector
MKII-AOH Fyreye II Addressable optical and heat detector

Certificate No: 330r to EN 54-3:2001 +A1: 2002 +A2:2006

Certificated Products

		LPCB Ref. No.
ZXT/R	Zeta Conventional Xtratone Indoor Sounder (Red) Notes: 1. Meets the requirements of EN54-3 at the following tones: 1) Tone 0: 800Hz and 970Hz, 500ms each 2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/04
ZXT/W	Zeta Conventional Xtratone Indoor Sounder (White) Note: 1. Meets the requirements of EN54-3 at the following tones: 1) Tone 0: 800Hz and 970Hz, 500ms each 2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/05
ZRP/R	Conventional Raptor Outdoor Sounder (Red) Note: 1. Meets the requirements of EN54-3 at the following tones: 1) Tone 0: 800Hz and 970Hz, 500ms each 2) Tone 7: 500Hz - 1200Hz, 3.5s sweep, 0.5s silence, repeat Dutch Slow Whoop	330r/06

This section is split into two categories, section 8.1 fire resistant cables and section 8.2 fire retardant cables.

Both types of cables are required to perform differently in the event of a fire.

Fire resistant cables are designed such that in the event of a fire they maintain circuit integrity

Fire retardant cables are designed such that in the event of a fire they limit the generation and spread of fire and smoke.

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

This section lists fire resistant cables for use in fire safety, fire detection and fire alarm systems and other applications where specifications require cables with specific performance in the event of a fire.

BS 5839-1:2013 *Fire detection and fire alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance*

BS 5839-1:2013 includes requirements for fire resistant cables for fire detection and alarm systems. It calls for 'Standard' and 'Enhanced' fire resistant cables and defines the requirements for these in Clause 26.2. These cables have to comply with EN 60702-1 (with a polymeric sheath), BS 7629-1 or BS 7846.

'Standard' fire resisting cables also have to:

- a) achieve at least Class PH30 when tested in accordance with EN 50200:2006.
- and
- b) maintain circuit integrity when exposed to a special flame / mechanical shock / water spray sequence equivalent to achieving a duration of 30 minutes when tested in accordance with EN 50200:2006 Annex E.

'Enhanced' fire resisting cables also have to:

- a) achieve a 120 minute survival when tested in accordance with EN 50200:2006,
- and
- b) maintain circuit integrity when exposed to a special flame / mechanical shock / water spray sequence equivalent to achieving a duration of 120 minutes when tested in accordance with BS 8434-2:2003+A2:2009.

Only cables complying with these requirements are listed as 'Standard' or 'Enhanced' under BS 5839-1, Clause 26.2.

BS 8519:2010 *Selection and installation of fire-resistant power and control cable systems for life safety and fire-fighting applications - Code of practice*

BS 8519:2010 gives guidance and recommendations on the selection and installation of power and control cable systems which are required to maintain their circuit integrity for life safety and fire-fighting applications. It also gives specific recommendations for electrical system design for such applications, and recommended limits for survival times.

Category 1: means of escape (30 min fire survival time).

- power cables of 20 mm overall diameter and above meeting the 30 min survival time when tested in accordance with BS 8491, or
- control cables meeting the PH30 classification when tested in accordance with EN 50200:2006, and the 30 min survival time when tested in accordance with Annex E of that standard

Category 2: means of escape (60 min fire survival time).

- power cables of 20 mm overall diameter and above meeting the 60 min survival time when tested in accordance with BS 8491 or
- control cables meeting the PH60 classification when tested in accordance with EN 50200:2006, and the 120 min survival time when tested in accordance with BS 8434-2:2003+A2:2009

Category 3: fire-fighting (120 min fire survival time).

- power cables of 20 mm overall diameter and above meeting the 120 min survival time when tested in accordance with BS 8491, or
- control cables meeting the PH120 classification when tested in accordance with EN 50200:2006, and the 120 min survival time when tested in accordance with BS 8519 Annex B.

Building Regulations 2010 - Fire Safety - Approved Document B

The Building Regulations 2010 - Fire Safety - Approved Document B - Volume 2 - Buildings other than dwelling houses defines a protected power circuit to be able to continue to function during a fire. A protected circuit for operation of equipment in the event of fire should consist of a cable meeting at least the requirements of PH30 when tested in accordance with EN 50200. Larger or complex buildings may require fire protection systems to operate for extended periods during fire and guidance on such systems is given in BS 5839-1, BS 5266-1 and BS 8491 (BS 7346-6).

Other Standards Used

The other standards and test methods currently used for certification are listed below. This list includes some "withdrawn" standards. Where possible, these will be replaced by the superseding standards when certificates are renewed. However, where withdrawn standards are called up by current standards, certification to the withdrawn standard may need to be maintained until the calling standard is amended to remove the reference:

- BS 6387:1994 *Performance requirements for cables required to maintain circuit integrity under fire conditions*
- BS 7629-1:1997 *Thermosetting insulated cables with limited circuit integrity when affected by fire. Part 1: Multicore cables*
- BS 7629-1:1997 (Incorporating Amendment Nos.1 and 2) *Thermosetting insulated cables with limited circuit integrity when affected by fire. Part 1: Multicore cables* (The provisions introduced by amendment No.1: 2004 are effective from 1st April 2004)
- BS 7629-1:2008 *Electric cables - Specification for 300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables*
- BS 7846:2000 *Electric cables 600/1000V armoured fire-resistant cables having thermosetting insulation and low emission of smoke and corrosive gases when affected by fire*
- BS 7846:2009 *Electric cables - Thermosetting insulated, armoured, fire - resistant cables of rated voltage 600/1 000 V, having low emission of smoke and corrosive gases when affected by fire - Specification*
- BS 8434-2:2003+A2:2009 *Method of test for assessment of the fire integrity of electric cables - Part 2: test for unprotected small cables for use in emergency circuits- EN 50200 with a 930°C flame and with water spray*
- BS 8491:2008 *Method for assessment of fire integrity of large diameter power cables for use as components for smoke and heat control systems and other certain active fire safety systems*
- BS 8519:2010 *Selection and installation of fire-resistant power and control cable systems for life safety and fire-fighting applications - Code of practice*
- EN 50200:2006 *Method of test for resistance to fire of unprotected small cables for use in emergency circuits*
- EN 50267-2-1:1999 *Common test method for cables under fire conditions- tests on gases evolved during combustion of materials from cables - procedures - Determination of the amount of halogen acid gas*
- EN 50267-2-3:1999 *Common test methods for cables under fire conditions - Tests on gases evolved during combustion of materials from cables - Procedure 2-3: Procedures - Determination of degree of acidity of gases for cables by determination of the weighted average of pH and conductivity*
- EN 60332-3:2009 *Tests on electric and optical fibre cables under fire conditions - Part 3: Test for vertical flame spread of vertically mounted bunched wires or cables*
- EN 60702-1:2002 *Mineral insulated cables and their terminations with rated voltage not exceeding 750V - Part 1: Cables*
- EN 61034-2:2005 *Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2)*
- EN 61034-2: 2005 *Measurement of smoke density of cables burning under defined conditions*
- IEC 60331-1:2009 - *Tests for electric cables under fire conditions - Circuit integrity - Part 1: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter exceeding 20mm.*
- IEC 60331-2:2009 - *Tests for electric cables under fire conditions - Circuit integrity - Part 2: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter not exceeding 20mm.*
- IEC 60331-21:1999 *Tests for electric cables under fire conditions - Circuit integrity - Part 21 Procedure and requirements - Cables of rated voltage up to and including 0,6/1,0kV*
- IEC 60332-3:2009 *Tests on electric cables under fire conditions - Part 3: Tests on bunched wires or cables*

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

- IEC 60754-1:2011 *Tests on gases evolved during combustion of materials from cables - Part 1: Determination of the amount of halogen acid gas*
- IEC 60754-2:2011 *Tests on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity*
- IEC 61034-2:2005 *Measurement of smoke density of cables burning under defined conditions*

Notes:

- 1) The rated voltages U_0/U recognised for BS 6387:1994 are, 300/500V and 450/750V, and for BS 7629-1 are 300/500V, where U_0 is the power-frequency voltage to earth and U is the power-frequency voltage between conductors.
- 2) Testing of single core cable to BS 6387:1994 is not recognised by the standard. This is because it requires the cable to have at least two metallic elements. Therefore LPCB approval of single core cable is based on the cable being tested in a stainless steel conduit.
- 3) All BS 6387 approvals must include EN 50267-2-1 (acid gas) and EN 61034-2 (smoke density) testing
- 4) MICC Cables approved to BS 5839-1:2002+A2:2008 Clause 26.2 must be sheathed with an overall polymeric covering.
- 5) EN 50200:2006 Annex E and BS 8434-2:2003+A2:2009 provide methods of test that meet the requirements for a special flame / mechanical shock / water spray sequences described in BS 5839-1:2013, Clause 26.2 d) and e), respectively.
- 6) BS 8491 does not cover cables with a voltage rating that exceeds 600/1000V or where the external cable diameter is less than 20mm.
- 7) BS 8519 standard covers both Power and Control cables; different test methods apply to each cable type. Control cables up to & including 4.0mm² can be approved to BS 8519.

2M KABLO SAN. ve TIC. A.S.

Gaziosmanpasa Mahallesi, Organize Sanayi Bolgesi, 4. Cd. 941. Ada D: No:18, 59500, Cerkezkoy/Terkirdag, Turkey

Tel: +90 212 672 7314 • Fax: +90 212 672 7312

E-mail: info@2mkablo.com • Website: www.2mkablo.com

Certificate No: 711d to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) BS 8519 (Clause 11) BS 5266-1 (Clause 8.2.2a) BS 5839-6 (Clause 16.2) BS 5839-8 (Clause 27.6)

Firekab SFR FE 180

LPCB Ref. No.

711d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 711e to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN50200:2015 (Class PH30) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013

LPCB Ref. No.

711e/01

3E - Electrical Energy Efficiency FZE

PO Box 341084, Silicon Oasis, Dubai, United Arab Emirates

Tel: +971 4 326 3950 • Fax: +971 4 326 3972

E-mail: info@3edubai.com • Website: www.3edubai.com

Certificate No: 568a-(cl-5) to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005 EN 50200:2006 (Class PH60 &120)

APS Fire

LPCB Ref. No.
568a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

AEI Cables Limited

Unit 32, Crowther Road, Crowther Industrial Estate, Washington, Tyne & Wear NE38 0AQ, United Kingdom
Tel: +44 (0)191 410 3111 • Fax: +44 (0)191 410 8312
E-mail: sales@aeicables.co.uk • Website: www.aeicables.co.uk

Certificate No: 221s to EN 60702-1: 2002, BS 6387: 2013 (Category CWZ), EN 50267-2-1:1999, EN 50200: 2006 (Class PH120), BS 8434-2: 2003+A2:2009 (120 mins) and BS 5389-1: 2013 (Clause 26.2e Enhanced)

AEI Mineral Insulated Cable

LPCB Ref. No.
221s/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221e to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 5839-1:2013 (Clause 26.2d Standard)

Firetec Standard Multicore LSZH

LPCB Ref. No.
221e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221f to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519: 2010 Cat 3

Firetec Enhanced Multicore LSZH

LPCB Ref. No.
221f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221v to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-24:2009 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120)

Firetec Single Core

LPCB Ref. No.
221v/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221k to BS 7846: 2015 Cat F2

Firetec Power

LPCB Ref. No.
221k/01

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221r to BS 7846:2015 Cat F2 & F120 BS 8519:2010 Category 3

Firetec Impact Power

LPCB Ref. No.

221r/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 221w to BS 8592:2016 BS 6387:2013 Category CWZ EN 61034-2:2005+A1:2013 IEC 60331-21:1999 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60332-3-24:2009 EN 60754-1:2014 IEC 60331-3:2009 EN 60332-1-2:2004+A1:2015

AEI FIRETEC SINGLE CORE BS 8592

LPCB Ref. No.

221w/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Alfanar

3rd Industrial Area, New AL Kharj Road, PO Box 564, Riyadh 11383, Kingdom of Saudi Arabia

Tel: +966 92000 6111 • Fax: +966 11275 6699

E-mail: ahmed.attia@alfanar.com • Website: www.alfanar.com

Certificate No: 1343e to BS 6387:2013 (CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-24:2009

Fireproof (CWZ)

LPCB Ref. No.

1343e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1343a to BS 6387:2013 IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014

Alfanar FIREPROOF Wires

LPCB Ref. No.

1343a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1343c to BS 7846:2015 Cat F2 & F120 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2015+A1:2013 IEC 60332-3-24:2009 IEC 60331-21:1999

Alfanar FIREPROOF (F120) Multi-core Cables

LPCB Ref. No.

1343c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

B3 International S.R.L.

Monte Napoleone 8, Milan 20121, Italy
Tel: +39 02 8732 3325 • Fax: +39 02 8732 3101
E-mail: Mathias.Lundh@b3cable.com • Website: www.b3cable.com

Certificate No: 1168a-(cl-1) to BS 6387:2013 (CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins)

B3 Cables Italy

LPCB Ref. No.
1168a/01-(cl-1)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Bahra Cables Company

CPC Industrial Park, Bahra, Jeddah 21432, Kingdom of Saudi Arabia
Tel: +966 25911115, (Toll Free) 8001248111 • Fax: +966 25915683
E-mail: fsb@bahra-cables.com • Website: www.bahra-cables.com

Certificate No: 1069a to BS 6387: 2013, IEC 60331-21: 1999, BS EN 50267-2-1: 1999, BS EN 50267-2-3: 1999 & BS EN 61034-2: 2005

FSB Wires

Nominal csa of conductor (mm ²)	Core construction	BS 6387	BS EN 50267-2-1	BS EN 50267-2-3	BS EN 61034-2	IEC 60331-21	LPCB Ref. No.
2.5	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	1069a/01
4.0	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
6.0	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
10	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
16	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
25	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
35	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
50	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
70	One ⁽¹⁾	C, W, Z (2, 3)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
95	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
120	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
150	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
185	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
240	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
300	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
400	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	
500	One ⁽¹⁾	C ^(2, 4)	<0.5% HCl	Complies	>60%	Complies ⁽⁵⁾	

Uo/U 450/750V

Notes:

- 1) Stranded conductor only.
- 2) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
- 3) To satisfy the requirement of BS 6387:2013, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
- 4) To satisfy the requirement of BS 6387:2013, testing for C category was conducted using a 38mm stainless steel conduit as the other

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FIRE RESISTANT CABLES

metallic element.

- 5) The FSB Wires cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C for a duration of 180mins, at a voltage rating of 450V.

Certificate No: 1069d to BS 6387:2013, IEC 60331-21:1999, IEC 61034-2:2005 + A1:2013, EN 50267-2-1:1999, EN 50267-2-3:1999 and EN 60332-3-24:2009

FSB 3000 Single core

Nominal csa of conductor (mm ²)	Core construction	BS 6387	IEC 60331-21	EN 50267-2-1	EN 50267-2-3	IEC 61034-2	EN 60332-2-24	LPCB Ref. No.
2.5	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	1069d/01
4.0	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	
6.0	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	
10	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	
16	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	
25	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	
35	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	-	
50	One	CWZ ⁴	Complies	<0.5% HCl	Complies	>60%	Complies	
70	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
95	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
120	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
150	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
185	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
240	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
300	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
400	One	CWZ ³	Complies	<0.5% HCl	Complies	>60%	Complies	
500	One	-	Complies	<0.5% HCl	Complies	>60%	Complies	
630	One	-	Complies	<0.5% HCl	Complies	>60%	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. To satisfy the requirement of BS 6387, testing for Category C was conducted using a 38mm stainless steel conduit as the other metallic element.
4. To satisfy the requirement of BS 6387, testing for Categories W and Z was conducted using a 20mm stainless steel conduit as the other metallic element.
5. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the FSB 3000 Single Core cables listed also met the requirements of EN 50267-2-2:1999.
6. The FSB 3000 Single Core cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°C for a duration of 180mins at a voltage rating of 600V.
7. The FSB 3000 Single Core cables listed also met the requirements of EN 60332-1-2:2004

Certificate No: 1069d to BS 6387:2013, IEC 60331-21:1999, IEC 61034-2:2005 + A1:2013, EN 50267-2-1:1999, EN 50267-2-3:1999 and EN 60332-3-24:2009

PART 1: SECTION 8.1
FIRE RESISTANT CABLES

FSB 3000 Multicore

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	IEC 60331-21	EN 50267-2-1	EN 50267-2-3	IEC 61034-2	EN 60332-3-24	LPCB Ref. No.
2.5	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	1069d/02
4.0	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
6.0	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
10	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
16	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
25	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
35	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
50	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
70	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
95	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
120	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
150	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
185	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
240	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	
300	2, 3 & 4	CWZ	Complies	<0.5% HCl	Complies	>60%	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the FSB 3000 Multicore cables listed also met the requirements of EN 50267-2-2:1999.
3. The FSB 3000 Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°C for a duration of 180mins at a voltage rating of 600/1000V.
4. The FSB 3000 Multicore cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1069c to BS 7846: 2015 Category F120 and BS 8519:2010 Category 3

FSB 6000

LPCB Ref. No.
1069c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1069b to BS 7846:2015 Cat F2 & F120

FSB Cable

LPCB Ref. No.
1069b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1069e to IEC 60331-21:1999 IEC 61034-2:2005+A1:2013 IEC 60754-1:2011 IEC 60754-2:2011 EN 60332-3-24:2009

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

FSB 5000 Single Core

LPCB Ref. No.

1069e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Bahri & Mazroei Technical Systems Co. LLC

BMTC Building, PO Box 1247, Al Khabaisi, Dubai, United Arab Emirates

Tel: +971 4 269 9051 • Fax: +971 4 269 9052

E-mail: Svetlana.Kostetskaya@bmtc.ae • Website: www.bmts.ae

Certificate No: 711e-(cl-3) to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 50200:2015 (Class PH30) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013

URANUS BM30 FE 180 PH30

LPCB Ref. No.

711e-(cl-3)/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1469a-(cl-2) to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

URANUS BMUR120E30

LPCB Ref. No.

1469a-(cl-2)/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Belden Wire & Cable B. V.

Edisonstraat 9, 5928 PG Venlo, The Netherlands

Tel: 00 317 7387 8300

E-mail: peter.bedaux@belden.com • Website: www.belden.com

Certificate No: 1460a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

SAFE-T-LINE

LPCB Ref. No.

1460a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

BERICA CAVI S.p.A.

Via della Meccanica 2, 36040 Meledo di Sarego, Meledo di Sarego (VI) 36040, Italy

Tel: +39 0444 820044 • Fax: +39 0444 820050

E-mail: bericacavi@bericacavi.com • Website: www.bericacavi.com

Certificate No: 1167a to BS 7629-1:2015 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH30) BS 5839-1:2013 (Clause 26.2d Standard)

EUROSAFE PLUS

LPCB Ref. No.

1167a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Burn Cable Management Systems (B. C. M. S. Sarl)

4 Rue Des Valettes, Zone Industrielle, 45140 Ingre, France

Tel: +33 221 310 000 • Fax: +33 221 310 004

E-mail: certification@bcmsint.com • Website: www.bcmsint.com

Certificate No: 1510a to BS 6387:2013 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 50200:2015 PH120 EN 50200:2015 Annex E BS 8434-2:2003+A2:2009

FM100 Fire Resistant Cable Simplex UK

LPCB Ref. No.

1510a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1510c to EN 60702-1:2002 BS 6387:2013 (Category CWZ) EN 50267-2-1:1999 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clasue 26.2e Enhanced)

Mineral Cable Simplex UK Light Duty & Mineral Cable Simplex UK Heavy Duty

LPCB Ref. No.

1510c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Cavicel SpA

Via Caduti del Lavoro, 18/A, Pioltello - MI 20096, Italy

Tel: +39 02 9216 0521 • Fax: +39 02 9216 0753

E-mail: cavicel@cavicel.com • Website: www.cavicel.com

Certificate No: 217j to IEC 60331-21: 1999 EN 61034-2: 2005+A1: 2013 EN 50200: 2015 (Class PH120) EN 60754-1: 2014

Firecel SR 106H

LPCB Ref. No.

217j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 217k to IEC 60331-23: 1999 EN 61034-2: 2005+A1: 2013 EN 50200: 2015 (Class PH120) EN 60754-1:2014

Firecel SR 485

LPCB Ref. No.

217k/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Certificate No: 217i to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Opticel FR

LPCB Ref. No.

217i/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 217f to BS 7629-1:2015 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH60) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FIRECEL SR 114H

LPCB Ref. No.

217f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 217g to BS 7629-1:2015 BS 6387:2013 (Category CWZ) EN 50200:2015 BS 8434-2:2003+A2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FIRECEL SR 114E

LPCB Ref. No.

217g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 217l to IEC 60331-23:1999 EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FIRECEL LAN

LPCB Ref. No.

217l/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 217m to EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FIRECEL LAN 6

LPCB Ref. No.

217m/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 217d to BS 6387:2013 (Category CWZ) EN 70754-1:2014 EN 60754-2:2014 BS 8434-2:2003+A2:2009 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60331-21:1999

FIRECEL SR 112

LPCB Ref. No.

217d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Cleveland Cable Company

Riverside Park Road, Middlesbrough, Cleveland TS2 1QW, United Kingdom
Tel: +44 1642 757 300 • Fax: +44 1642 222 683
E-mail: sales@clevelandcable.com • Website: <http://www.clevelandcable.com>

Certificate No: 1410a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

ZFLAM200

LPCB Ref. No.

1410a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Context Plus Ltd

Export House, 175 Mauldeth Road, Fallowfield, Manchester M14 6SG, United Kingdom
Tel: +44 (0)161 257 2541 • Fax: +44 (0)161 225 8817
E-mail: xportsales@xportsales.com • Website: www.xportsales.com

Certificate No: 682a-(cl-3) to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

Context Plus

LPCB Ref. No.

682a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682e-(cl-1) to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 50200:2015 (Class PH30), EN60332-3-24:2009, EN 60332-3-25:2009

Context Plus XPS

LPCB Ref. No.

682e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682c-(cl-1) to BS 6387: 2013 (Category CWZ), EN 60754-1-1: 2014, EN 61034-2: 2005+A1:2013, EN 50200: 2015 Annex E (30 mins), EN 50200: 2015 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009

Context Plus XP

LPCB Ref. No.

682c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Dätwyler Cabling Solutions AG

Gotthardstrasse 31, CH-6460 Altdorf, Switzerland

Tel: +41 41 875 1268 • Fax: +41 41 875 1986

E-mail: info.cabling.ch@datwyler.com • Website: www.cabling.datwyler.com

Certificate No: 172b to BS 7629-1:2008 BS 6387:2013 (Category CWZ) EN 50200:2006 (Class PH30) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

Datwyler Standard Fire Safety Cable

LPCB Ref. No.

172b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 172c to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

Datwyler Enhanced Fire Safety Cable

LPCB Ref. No.

172c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 172e to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

DFS ME

LPCB Ref. No.

172e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 172g to BS 7629-1:2015 BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 60332-3-24:2009 EN 60332-3-25:2009 BS 5839-1:2013 (Clause 26.2d Standard)

DFS ST

LPCB Ref. No.

172g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 172h to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

DFS EN BS

LPCB Ref. No.

172h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 172i to BS 7629-1:2015 (Standard 30 & 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH60 & PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

DFS ST BS

LPCB Ref. No.

172i/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Doha Cables

MIC Community Area, Mesaieed 22487, Qatar

Tel: +974 5591 2001 • Fax: +974 4490 2176

E-mail: info@dohacables.com • Website: www.dohacables.com

Certificate No: 1281a to EN 60754-2:2014, BS 7846:2009 CAT F2 & F120 and BS 8519:2010

FIRE GUARD 1000 PLUS

LPCB Ref. No.

1281a/01

1281a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1281c to BS 7846:2015 Cat F2 EN 60754-2:2014 IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 8434-2:2003+A2:2009

FIRE GUARD 1000

LPCB Ref. No.

1281c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1281b to BS 6387:2013 CWZ EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 8434-2:2003+A2:2009 (120 mins) IEC 60332-1-2:2004

FIRE GUARD 100

LPCB Ref. No.

1281b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Doncaster Cables

Millfields Industrial Estate, Arksey Lane, Bentley, Doncaster, South Yorkshire DN5 0SJ, United Kingdom

Tel: +44 (0)1302 821700 • Fax: +44 (0)1302 821701

E-mail: sales@doncastercables.com • Website: www.doncastercables.com

Certificate No: 338a to BS 7629-1:2015 BS 6387:2013 (Category CWZ) EN 50200:2015 (PH60) EN 50200:2015 Annex E

FIRESURE CABLES

LPCB Ref. No.

338a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Certificate No: 338b to BS 7629-1:2015 BS 6387:2013 (Category CWZ) IEC 60331-21:1999 IEC 60332-3-24:2000+A1:2008 EN 50200:2015 (PH120) BS 8434-2:2003+A2:2009 120 min BS 5839-1:2002+A2:2013 Clause 26.2e

FIRESURE PLUS

LPCB Ref. No.

338b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 338d to EN 60702-1:2002

(DONCASTER CABLES ENGLAND) MINERAL INSULATED CABLE

LPCB Ref. No.

338d/01

338d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 338e to BS 8592:2016 BS 6387:2013 CWZ EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FIRESURE 1

LPCB Ref. No.

338e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 338c to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E BS 5839-1:2002+A2:2013 (Clause 26.2d)

FIRESURE 500

LPCB Ref. No.

338c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Draka (Malaysia) Sdn. Bhd.

Lot 48, Jalan Industri 13, Alor Gajah Industrial Estate, 78000 Alor Gajah, Malacca, Malaysia

Tel: +606 556 3833 • Fax: +606 556 3282

E-mail: scmm@draka.com • Website: www.draka.com.my

Certificate No: 994a to BS 6387: 1994, IEC 60331-21: 1999, BS EN 50267-2-1: 1999 and BS EN 61034-2: 2005

FIRETUF Classic MI SIFER (s)

Nominal csa of conductor (mm ²)	Core construction (See note 1)	BS 6387 (See notes 2 - 4)	BS EN 50267-2-1	BS EN 61034-2	IEC 60331-21 (See note 9)	LPCB Ref. No.
1.5	One	C, W, Z ⁽⁵⁾	<0.5% HCl	>60%	Complies	994a/01
2.5	One	C, W, Z ⁽⁵⁾	<0.5% HCl	>60%	Complies	
4.0	One	C, W, Z ^(6, 7)	<0.5% HCl	>60%	Complies	
6.0	One	C, W, Z ^(6, 7)	<0.5% HCl	>60%	Complies	
10	One	C, W, Z ^(6, 7)	<0.5% HCl	>60%	Complies	
16	One	C, W, Z ^(6, 7)	<0.5% HCl	>60%	Complies	
25	One	C, W, Z ^(6, 7)	<0.5% HCl	>60%	Complies	
35	One	C, W, Z ^(6, 7)	<0.5% HCl	>60%	Complies	

PART 1: SECTION 8.1**FIRE RESISTANT CABLES**

Nominal csa of conductor (mm ²)	Core construction (See note 1)	BS 6387 (See notes 2 - 4)	BS EN 50267-2-1	BS EN 61034-2	IEC 60331-21 (See note 9)	LPCB Ref. No.
50	One	C, W, Z ^(6,7)	<0.5% HCl	>60%	Complies	
70	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
95	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
120	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
150	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
185	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
240	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
300	One	C ⁽⁷⁾	<0.5% HCl	>60%	Complies	
400	One	Complies ⁽⁸⁾	<0.5% HCl	>60%	Complies	
500	One	Complies ⁽⁸⁾	<0.5% HCl	>60%	Complies	
630	One	Complies ⁽⁸⁾	<0.5% HCl	>60%	Complies	

Uo/U 600/1000V

Notes:

- 1) Stranded conductor only.
- 2) Clauses 8 (Bending) and 9.1 & 9.2 (Impact) cannot be conducted due to the cable having only one core.
- 3) These cables also met category C, W, Z when tested for voltage rating 600/1000V which is not recognised by BS 6387.
- 4) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
- 5) To satisfy the requirement of BS 6387, testing for C, W & Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.
- 6) To satisfy the requirement of BS 6387, testing for W & Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.
- 7) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
- 8) Only Clause 10 of BS 6387 was conducted.
- 9) These cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 750°C and at a voltage rating of 600V.

Draka UK Limited

Chickenhall Lane, Eastleigh, Hants SO50 6YU, United Kingdom

Tel: 01332 345431 • Fax: 01332 331237

E-mail: cableuk@draka.com • Website: www.drakauk.com

Certificate No: 1134a to BS 7629-1: 2015 (STANDARD 60), BS 6387: 2013 (C,W,Z), EN 50200: 2015 Class PH120, EN 50200: 2015 Annex E and BS 5839-1: 2013 (Clause 26.2d Standard)

FT30**LPCB Ref. No.**

1134a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134c to BS 6387:2013 and IEC 60331-21: 1999

FT SIFER 950i

Nominal csa of conductor (mm ²)	Core construction	BS 6387	IEC 60331-21	LPCB Ref. No.
16	One	C, W, Z	Complies	1134c/01
25	One	C, W, Z	Complies	
35	One	C, W, Z	Complies	
50	One	C, W, Z	Complies	
70	One	C, W, Z	Complies	
95	One	C, W, Z	Complies	
120	One	C	Complies	
150	One	C	Complies	
185	One	-	Complies	
240	One	-	Complies	
300	One	-	Complies	
400	One	-	Complies	
500	One	-	Complies	
630	One	-	Complies	

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Uo/U 600/1000V

Notes:

- 1) Stranded conductor only.
- 2) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
- 3) To satisfy the requirement of BS 6387, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
- 4) To satisfy the requirement of BS 6387, testing for W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
- 5) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
- 6) The FT SIFER 950i cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Certificate No: 1134k to BS 7629-1:1997, EN 50200:2006, EN 50200:2006 Annex E, BS 5839-1:2013

FT30 SAFFIRE

Nominal csa of conductor (mm²)	Core construction (excluding drain wire & earth)	BS 7629-1	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	2, 3 & 4	Complies ^(3,4)	PH30 & PH60	30min ⁽⁵⁾	Standard ⁽⁶⁾	1134k/01
2.5	2, 3 & 4	Complies ^(3,4)	PH30 & PH60	30min ⁽⁵⁾	Standard ⁽⁶⁾	
4.0	2, 3 & 4	Complies ^(3,4)	PH30 & PH60	30min ⁽⁵⁾	Standard ⁽⁶⁾	

Uo/U 300/500V

Notes:

- 1) Solid conductor only.
- 2) Stranded conductor only.
- 3) In meeting the requirements of BS 7629-1:1997, the FT30 SAFFIRE cables listed met the requirements for smoke density of EN 61034-2:2005, the fire resistance requirements in BS 6387:2103 Categories CWZ and achieved less than 0.5% HCl for the insulation, binder tape & outer covering when tested in accordance with EN 50267-2-1:1999.
- 4) BS 7629-1:1997 was amended in 2004 to implement the changes to the identification of cores by colours, in accordance with the CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.
- 5) The duration of 30 min when tested in accordance with EN 50200:2006 Annex E is achieved by 15 min for the fire and mechanical shock phase and a further 15 min for the fire, mechanical shock and water phase.
- 6) The FT30 SAFFIRE cables listed conform to BS 7629-1:1997, met Class PH30 when tested in accordance with BS EN 50200:2006 and met the 30min duration when tested in accordance with EN 50200:2006 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.

Certificate 1134j covers cables certified in accordance with BS 7629-1:2008

Certificate No: 1134f to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FTP

LPCB Ref. No.
1134f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134e to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FTP

LPCB Ref. No.
1134e/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134b to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FT120

LPCB Ref. No.

1134b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134j to BS 7629-1:2015 (Standard 60) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 6387:2013 (CWZ)

FT30 SAFFIRE

LPCB Ref. No.

1134j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134g to BS 6387:2013 (Category CWZ), EN 60754-1: 2014, EN 61034-2: 2005 and IEC 60331-21: 1999

FT SIFER 950i OHLS

LPCB Ref. No.

1134g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134d to BS 8491: 2008, EN 60754-1: 2014 and BS EN 61034-2: 2005

FTP120

LPCB Ref. No.

1134d/01

1134d/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134h to BS 6387:2013 (Category CWZ), EN 60754-1:2014 and IEC 60331-21:1999

FT SIFER 950s

LPCB Ref. No.

1134h/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1134l to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

FT 120 Saffire

LPCB Ref. No.

1134l/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Dubai Cable Company (Private) Limited, Trading as Ducab

Old Abu Dhabi Road, Jebel Ali, Dubai, United Arab Emirates

Tel: +9714 815 8888 • Fax: +9714 815 8433

E-mail: ducab@ducab.com • Website: www.ducab.com, Sales office: PO Box 11529, Dubai, UAE

Certificate No: 781e to BS 7629-1:2015, BS 6387:2013 CWZ, EN 50200:2015 (Class PH120), BS 8434-2:2003+A2:2009, BS 5839-1:2013 (Clause 26.2e Enhanced)

DUCAB Flam BICC 2a Enhanced

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 (clause 26.2)	LPCB Ref. No.
1.0 ⁽²⁾	2	Enhanced 120 ⁽³⁾	C,W,Z	Class PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	781e/01
1.5 ^(1 & 2)	2, 3 & 4	Enhanced 120 ⁽³⁾	C,W,Z	Class PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	
2.5 ^(1 & 2)	2, 3 & 4	Enhanced 120 ⁽³⁾	C,W,Z	Class PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	
4.0 ⁽¹⁾	2, 3 & 4	Enhanced 120 ⁽³⁾	C,W,Z	Class PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. Stranded construction only.
3. In meeting the requirements of BS 7629-1:2015, the DUCAB Flam BICC 2a Enhanced cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, achieved less than 0.5%HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387: 2013 Categories CWZ.
4. The duration of 120min when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.
5. The DUCAB Flam BICC 2a Enhanced cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met the 120min duration when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.

Certificate No: 781c to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005 EN 50267-2-1:1999

Ducab Flam BICC 1

LPCB Ref. No.

781c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 781a to BS 7846:2015 Cat F2

Ducab Flam BICC 4

LPCB Ref. No.

781a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Dubai Cable Company (Private) Limited, Trading as Ducab

Ducab-M1, Plot No. - 2D12,3D2,4D2,5D2, Sector - M41, Industrial City of Abu Dhabi-1, Mussafah, Abu Dhabi, United Arab Emirates

Tel: +9714 815 8888 • Fax: +9714 815 8433

E-mail: ducab@ducab.com • Website: www.ducab.com

Certificate No: 782j to BS 7629-1:1997. This certificate is to a withdrawn version of the BS 7629-1:1997, Cables conforming to this version of the standard may not be suitable for use within the jurisdiction for the European Union (EU). BS 5839-1:2013 Clause 26.2d, EN 50200:2006 Class PH120, EN 50200:2006 Annex E

Ducab Flam BICC 2a

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7629-1 (see note 6)	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5 ⁽¹⁾	2, 3 & 4	Complies	Class PH120	30min	Standard	782j/01
2.5 ⁽¹⁾	2, 3 & 4	Complies	Class PH120	30min	Standard	
4.0 ⁽²⁾	2, 3 & 4	Complies	Class PH120	30min	Standard	

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. In meeting the requirements of BS 7629-1:1997, the Ducab Flam BICC 2a cables listed met the requirements of smoke density of EN 61034-2:2005, fire resistance requirements CWZ in Clause 11 of BS 6387:1994 and achieved less than 0.5%HCl on the insulation, binder tape and outer covering when tested in accordance with EN 50267-2-1:1999.
4. The duration of 30min when tested in accordance with EN 50200:2006 Annex E is achieved by 15min for the fire and mechanical shock phase and an additional 15min for the fire, mechanical shock and water phase.
5. The Ducab Flam BICC 2a cables listed conform to BS 7629-1:1997, met Class PH120 when tested in accordance with EN 50200:2006 and met the 30min duration when tested in accordance with EN 50200:2006 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.
6. BS 7629-1:1997 was amended in 2004 to implement the changes to the identification of cores by colours, in accordance with the CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.

Certificate 782h covers cables certified in accordance with BS 7629-1:2008

Certificate No: 782k to BS 7629-1: 2015, BS 6387: 2013 CWZ, EN50200:2015 (Class PH120), BS 8434-2:2003+A2:2009, BS 5839-1:2013 9Clause 26.2e Enhanced)

DUCAB Flam BICC 2a Enhanced

LPCB Ref. No.
782k/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 782a to BS 7846: 2015 Cat F2

Ducab Flam BICC 4

LPCB Ref. No.
782a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Certificate No: 782f to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005 IEC 60331-21:1999

Ducab Flam BICC 3

LPCB Ref. No.

782f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 782c to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-24:2009 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120)

Ducab Flam BICC 1

LPCB Ref. No.

782c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 782g to BS 7846:2015 Cat F2 & F120 BS 8519:2010 Clause 11

Ducab Flam BICC 6

LPCB Ref. No.

782g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 782l to IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Ducab Flam BICC 4 AL Armr

LPCB Ref. No.

782l/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 782m to BS 8592:2016 BS 6387:2013 Category CWZ EN 61034-2:2005+A1:2013 IEC 60331-21:1999 BS 8434-2:2003+A2:2009 (120 mins) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) IEC 60332-3-24:2009 EN 60754-1:2014 IEC 60331-3:2009 EN 60332-1-2:2004+A1:2015

Ducab Flam BICC 1 BS 8592

LPCB Ref. No.

782m/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Dubai Cable Company (Private) Limited, Trading as Ducab

Ducab-M2, Plot No. - J6 14-15-16, Sector - M41, Industrial City of Abu Dhabi-1, Mussafah, Abu Dhabi, United Arab Emirates

Tel: +9714 815 8888 • Fax: +9714 815 8433

E-mail: ducab@ducab.com • Website: www.ducab.com, Sales office: PO Box 11529, Dubai, UAE

Certificate No: 949a to BS 7846:2015 Cat F2

Ducab Flam BICC 4

LPCB Ref. No.
949a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 949c to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 61034-2:2005 IEC 60331-21:1999

LPCB Ref. No.
949c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 949d to BS 7629-1:2015 Standard 60 BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS5839-1:2013 (Clause 26.2d Standard)

Ducab Flam BICC 2a Standard

LPCB Ref. No.
949d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 949e to BS 7629-1:2015 Enhanced BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 Cat 3

Ducab Flam BICC 2a Enhanced

LPCB Ref. No.
949e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 949b to BS 7846:2015 Cat F2 & F120 BS 8519:2010 Clause 11

Ducab Flam BICC 6

LPCB Ref. No.
949b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Dubai Cable Company (Private) Limited, Trading as Ducab
P. O. Box No 11529, Old Abu Dhabi Road, Jebel Ali, Dubai, United Arab Emirates
Tel: +971 4 815 8888 • Fax: +971 4 815 8433
E-mail: ducab@ducab.com • Website: www.ducab.com

Certificate No: 781f to BS 7846:2015 (Cat F2 & F120) BS 8519:2010

Ducab FlamBICC 6

LPCB Ref. No.
781f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

El Sewedy Cables

10th of Ramadan City, Zone A3 44629, Egypt

Tel: +002 015 411218 • Fax: +002 015 411215

E-mail: Huithem@elsewedy.com • Website: www.elsewedycables.com

Certificate No: 1290a to BS 7846:2009 Category F2 and EN 50200 Class PH 60

FIRE GUARD 1000

Nominal csa of conductor (mm ²)	Core Construction	BS 7846	BS EN 50200	LPCB Ref. No.
1.5	4	F2	Class PH60	1290a/01
2.5	4	F2	Class PH60	
4.0	4	F2	Class PH60	
6.0	4	F2	-	
10	4	F2	-	
16	4	F2	-	

Uo/U 600/1000V

Notes:

1. Stranded conductors only.
2. In meeting the requirements to BS 7846:2009 Category F2, the FIRE GUARD 1000 cables listed met the requirements for smoke density of EN 61034-2:2005, fire resistance requirements to BS 6387:2013 Categories CWZ and achieved less than 0.5%HCl for the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 50267-2-1:1999.

El Sewedy Cables - Egypt (Egytech Cables)

3rd Industrial Zone A3, 10th of Ramadan city, , Egypt

Tel: +002 015 411350 • Fax: +002 015 411366

E-mail: info@elswedy.com • Website: www.elswedy.com

Certificate No: 1285a to BS 7846:2009 Category F2 and F120

FIRE GUARD 1000 PLUS

Nominal csa of conductor (mm ²)	Core Construction	BS 7846	LPCB Ref. No.
25	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	1285a/01
35	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
50	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
70	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
95	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
120	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
150	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
185	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
240	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
300	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	
400	4 ⁽¹⁾	F2 ⁽²⁾ & F120 ⁽³⁾	

Uo/U 600/1000V

Notes:

1. Stranded conductors only.
2. In meeting the requirements to BS 7846:2009 Category F2, the FIRE GUARD 1000 PLUS cables listed met the requirements for smoke density of EN 61034-2:2005, fire resistance requirements to BS 6387:2013 Categories CWZ and achieved less than 0.5%HCl for the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 50267-2-1:1999.
3. In meeting the requirements of BS 7846:2009 Category F120, the FIRE GUARD 1000 PLUS cables listed met the requirements for 120 minutes fire resistance to BS 8491:2008.

Electrical Energy Efficiency FZE

PO Box 341084, DUBAI Silicon Oasis, United Arab Emirates
Tel: +971 4 3263950
E-mail: info@3edubai.com

Certificate No: 568c-(cl-4) to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH30/PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

APS Fire

LPCB Ref. No.

568c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Erse Kablo Sanayi Ticaret A.S.

Halil Rifat Pasa Mh. Yuzer Havuz Sk., No: 5-9 Sisli, 34384, Istanbul, Turkey
Tel: +90 212 737 3700
E-mail: info@ersekablo.com.tr • Website: www.ersekablo.com.tr

Certificate No: 1469a to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

FIRESAFE GOLD

LPCB Ref. No.

1469a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Fireguard Global Ltd.

Unit 11 Chancel Industrial Estate, Newhall Street, Willenhall, West Midlands WV13 1NX, United Kingdom
Tel: +44 (0)8450 751042 • Fax: +44 (0)845 2991039
E-mail: info@fireguard-uk.com • Website: www.fireguard-uk.com

Certificate No: 711e-(cl-1) to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 50200:2015 (Class PH30) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013

Fireguard-UK FG FRC 180 PH30

LPCB Ref. No.

711e-(cl-1)/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Firesafe

10 Sanderson Way, Marton, Blackpool, Lancashire FY4 4NB, United Kingdom
Tel: 01253 699500 • Fax: 01253 699550
E-mail: info@firesafe.co.uk • Website: www.firesafe.co.uk

Certificate No: 682d-(cl-1) to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2 Enhanced) EN 60332-3-24 EN 60332-3-25

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Zeroburn Plus

LPCB Ref. No.

682d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682a-(cl-6) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-24:2009 and EN 60332-3-25:2009

zeroburn

LPCB Ref. No.

682a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Helukabel GmbH

Dieselstraße 8-12, Hemmingen 71282, Germany

Tel: +49 7150 9209 311 • Fax: +49 7150 9209 5311

E-mail: erwin.kerekes@helukabel.de • Website: www.helukabel.de

Certificate No: 568c-(cl-8) to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH30/PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

LPCB Ref. No.

568c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Huzhou Jiusheng Electric Co Ltd

1000 Xifeng Road, Huzhou Economy & Technology Area, Huzhou, Zhejiang, China

Tel: +86 572 222 8188 • Fax: +86 572 222 8177

E-mail: zjh@hz-tec • Website: www.teccable.com

Certificate No: 948a to EN 60702-1:2002 and BS 6387:2013 (Category C,W,Z)

TEC MI BARE CABLE (LIGHT DUTY)

Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	LPCB Ref. No.
1.0 ^(1,2)	2, 3, 4 & 7	Complies	C,W,Z	948a/01
1.5 ^(1,2)	2, 3, 4 & 7	Complies	C,W,Z	
2.5 ^(1,2)	2, 3, 4 & 7	Complies	C,W,Z	
4.0 ^(1,2)	2	Complies	C,W,Z	

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. The above cables are certified in Bare construction only.

Certificate No: 948b to EN 60702-1: 2002, BS 6387: 2013 (Category C,W,Z), EN 50200:2006 (Class PH120), BS 8434-2:2003+A2:2009 (120mins), BS 5839-1:2013 (Clause 26.2e & EN 50267-2-1:1999)

TEC MI SERVED CABLE (LIGHT DUTY)

Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	EN 50267-2-1 (outer covering)	LPCB Ref. No.
1.0 ^(1,2)	2, 3, 4 & 7	Complies	C,W,Z	Class PH120	120min	Enhanced ⁽⁴⁾	<0.5% HCl	948b/01
1.5 ^(1,2)	2, 3, 4 & 7	Complies	C,W,Z	Class PH120	120min	Enhanced ⁽⁴⁾	<0.5% HCl	
2.5 ^(1,2)	2, 3, 4 & 7	Complies	C,W,Z	Class PH120	120min	Enhanced ⁽⁴⁾	<0.5% HCl	
4.0 ^(1,2)	2	Complies	C,W,Z	Class PH120	120min	Enhanced ⁽⁴⁾	<0.5% HCl	

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. The above cables are certified in Served construction only.
3. In meeting the requirements of EN 60702-1: 2002, the TEC MI SERVED CABLE (LIGHT DUTY) listed met the requirements of smoke density of IEC 61034-2: 2005 and also met the requirements of pH & conductivity when tested in accordance with IEC 60754-2: 2011.
4. The TEC MI SERVED CABLE (LIGHT DUTY) listed conform to EN 60702-1: 2002, met Class PH120 when tested in accordance with EN 50200: 2006 and met a duration of 120min when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an Enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1: 2013.

IDH Cables Limited

Millbanks, New Ross, County Wexford, Ireland
Tel: 00353 51 421 405
E-mail: sales@cables.idh.ie

Certificate No: 1302b to BS 7629-1:2015, BS 6387:2013 (Category CWZ), EN 50200:2015 (PH60) and EN 50200:2015 Annex E and BS 5839-1 Clause 26.2d

Kilflam Standard 2000

LPCB Ref. No.
1302b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1302c to BS 7629-1:2015 (Enhanced 120) BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced) BS 8519:2010 Cat 3

Kilflam Enhanced 3000

LPCB Ref. No.
1302c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1302a to BS 6387:2013 EN 60754-1:1999 EN 50267-2-2:1999 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 8434-2:2003+A2:2009 (120 mins)

Kilflam 1000

LPCB Ref. No.
1302a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Italcond S.r.l.

Via Erideo Marinucci 42/44, 62019 Recanati (MC), Italy

Tel: +39 071 7501692 • Fax: +39 071 7503017

E-mail: info@italcond.it • Website: www.italcond.it

Certificate No: 1168a to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins)

ITALCOND/ITALFIRE - Fire Resistant

LPCB Ref. No.

1168a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Jaylow Supplies Ltd

Jaylow House, Leyton Link Estate, Argall Avenue, Leyton, London E10 7FD, United Kingdom

Tel: +44 (0)208 558 1921 • Fax: +44 (0)208 988 5114

Website: www.jaylowcables.com

Certificate No: 682d-(cl-2) to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2 Enhanced) EN 60332-3-24 EN 60332-3-25

Jayflame Enhanced

LPCB Ref. No.

682d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682a-(cl-1) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 5839-1:2013 (Clause 26.2d Standard), EN 60332-3-24: 2009 and EN 60332-3-25: 2009

Jayflame

LPCB Ref. No.

682a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Jeddah Cables Company

Industrial City Phase III, P.O. Box 31248, Jeddah 21497, Kingdom of Saudi Arabia

Tel: +966 12 636 0770 +971 4262 6605

E-mail: info@cables.energya.com • Website: www.jeddah-cables.com

Certificate No: 1538c to EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

FireX200 (Armoured)

LPCB Ref. No.

1538c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1538b to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FireX200 (Unarmoured)

LPCB Ref. No.

1538b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Certificate No: 1538a to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

FireX100

LPCB Ref. No.

1538a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Keystone Electric Wire & Cable Company Ltd

#110 DD 83, Kwan Ti North Village, Fanling, New Territories, Hong Kong

Tel: +852 2691 7183 • Fax: +852 2695 9738

E-mail: sales@keystonecable.com • Website: www.keystonecable.com

Certificate No: 663d to BS 7846:2015 F2 and F120 BS 8491:2008

KEYSTONE Enhanced Fire Resistance Armoured Cable

LPCB Ref. No.

663d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 663c to BS 7846: 2015 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) EN 60754-2:2014

KEYSTONE Fire Resistance Armoured Cable

LPCB Ref. No.

663c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 663b to BS 6387: 2013 (Category CWZ) EN 50200:2015 (Class PH120+Annex E) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

KEYSTONE FR 7211 Cable

LPCB Ref. No.

663b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

KME Italy SpA

Via Della Repubblica 257, 55051 Fornaci Di Barga, Lucca, Italy

Tel: +39 0583 701.1 • Fax: +39 0583 701623

E-mail: alessandro.tardivel@kme.com • Website: www.kme-italy.com

Certificate No: 427a to BS 6387:2013 CWZ EN 60702-1:2002+A1:2015

LPCB Ref. No.
427a/01
427a/02
427a/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Lambent Global Trading

Office # 2911, Churchill Executive Tower, Business Bay, Burj Khalifa Area, Dubai, United Arab Emirates

Tel: +971 505 52 0071 • Fax: +971 436 08 114

E-mail: sh.ali@lambentglobal.com • Website: www.lambentglobal.com

Certificate No: 568c-(cl-6) to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH30/PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

Lambent-FireResist3 Standard

LPCB Ref. No.
568c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568a-(cl-7) to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005 EN 50200:2015 (Class PH60 & 120)

Lambent-FireResist3 Standard

LPCB Ref. No.
568a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568j-(cl-2) to BS 7629-1: 2015 EN 50200: 2006 (Class PH120) BS 8434-2: 2003+A2: 2009 (120 mins) EN 60332-1-2: 2004 EN 61034-2: 2005+A1: 2013 EN 60754-1:2014 BS 5839-1:2013 (Clause 26.2e Enhanced)

Lambent-FireResist3 Enhanced

LPCB Ref. No.
568j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

LEONI Studer AG

Herrenmattstr. 20, CH 4658 Däniken, Switzerland
Tel: +41 62 288 82 82 • Fax: +41 62 288 83 83
E-mail: sales-export@leoni.com • Website: www.leoni.com

Certificate No: 896c to BS 6387: 2013 (CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009

BETAflam FR-MI 110 Cable Multicore, STA & SWA

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5 ⁽¹⁾	2 - 41	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	896c/01
2.5 ⁽¹⁾	2 - 24	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
4.0 ⁽¹⁾	2 - 7	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
6.0 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
10 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
16 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
25 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
35 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
50 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
70 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
95 ⁽¹⁾	2-5	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
120 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
150 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
185 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
240 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
300 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
400 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. These cables met category CWZ when tested for voltage rating 600/1000V.
3. The BETAflam FR-MI 110 Cable Multicore cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C and at a voltage rating of 600/1000V.
4. The flame test IEC 60332-1-2 is fulfilled for the complete cable and for the insulated conductor without sheath.

Certificate No: 896c to BS 6387: 2013 (CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009

BETAflam FR-MI 110 Cable Multicore STA

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 60754-1	BS EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5 ⁽¹⁾	2 - 41	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	896c/02
2.5 ⁽¹⁾	2 - 21	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
4.0 ⁽¹⁾	2 - 7	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
6.0 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
10 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
16 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
25 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
35 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60% ⁽³⁾	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
50 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
70 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
95 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
120 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
150 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
185 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
240 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
300 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
400 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. These cables also met category CWZ when tested for voltage rating 600/1000V.
3. EN 61034-2: 2005 approval applies to the 35mm² cable at 3 & 4 cores only.
4. The BETAflam FR-MI 110 Cable Multicore STA cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C and at a voltage rating of 600/1000V.
5. The flame test IEC 60332-1-2 is fulfilled for the complete cable and for the insulated conductor without a sheath.

Certificate No: 896c to BS 6387: 2013, EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1:2004, IEC 60331-21: 1999 and IEC 60332-3-24: 2009

BETAflam FR-MI 110 Cable Multicore SWA

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	BS EN 50267-2-1	BS EN 61034-2	IEC 60332-1	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
2.5 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	896c/03
4.0 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
6.0 ⁽¹⁾	2 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
10 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
16 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
25 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
35 ⁽¹⁾	3 - 5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
50 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
70 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
95 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
120 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
150 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
185 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
240 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
300 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
400 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. These cables also met category CWZ when tested for voltage rating 600/1000V.
3. The BETAflam FR-MI 110 Cable Multicore SWA cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C and at a voltage rating of 600/1000V.
4. The flame test IEC 60332-1 is fulfilled for the complete cable and for the insulated conductor without a sheath.

Certificate No: 896e to BS 6387: 1994, BS EN 50267-2-1: 1999, BS EN 61034-2: 2005, IEC 60332-3-22: 2008 and IEC 60332-3-24: 2008

BETAflam FR-SIR-F 90

Nominal csa of conductor (mm ²)	Core construction (excluding drain wire)	BS 6387	BS EN 50267-2-1	BS EN 61034-2	IEC 60332-3-22	IEC 60332-3-24	LPCB Ref. No.
1.5 ⁽¹⁾	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896e/01
2.5 ⁽¹⁾	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	

Uo/U 300/500V

Notes

1. Solid conductor only.

Certificate No: 896f to BS 6387: 1994, BS EN 50267-2-1: 1999, BS EN 61034-2: 2005, IEC 60332-3-22: 2008 and IEC 60332-3-24: 2008

PART 1: SECTION 8.1**FIRE RESISTANT CABLES****BETAflam FR-SIR-U 90**

Nominal csa of conductor (mm ²)	Core construction (excluding drain wire)	BS 6387	BS EN 50267-2-1	BS EN 61034-2	IEC 60332-3-22	IEC 60332-3-24	LPCB Ref. No.
2.5 ⁽¹⁾	1 pair	C,W,Z	<0.5% HCl	>60%	Complies	Complies	896f/01

Uo/U 300/500V

Notes

1. Solid conductor only.

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 611034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000

BETAflam FR-MI 90 Cable Multicore

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 60754-1	EN 60134-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5 ⁽¹⁾	2-41	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	896g/01
10 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
120 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
150 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
16 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
185 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
2.5 ⁽¹⁾	2-24	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
240 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
25 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
300 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
35 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
4.0 ⁽¹⁾	2-7	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
400 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
50 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
6.0 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
70 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
95 ⁽¹⁾	2-5	CWZ	<0.5% HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductors only.
2. These cables met category CWZ when tested for voltage rating 600/1000V.
3. The BETAflam FR-MI 90 Cable Multicore Cables met the requirements of IEC, 60331-21:1999 when tested at a temperature of 950°C and at a voltage rating of 600/1000V.
4. The flame test IEC 60332-1-2 is fulfilled for the complete cable and for the insulated conductor without sheath.

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 61034-2:2005+A1:2013, IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000

BETAflam FR-MI 90 Cable Multicore STA

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 60754-1	EN 60134-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
1.5 ⁽¹⁾	2-41	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	896g/02
10 ⁽¹⁾	2-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
120 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
150 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
16 ⁽¹⁾	3-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
185 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
2.5 ⁽¹⁾	2-21	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
240 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
25 ⁽¹⁾	3-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
300 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
35 ⁽¹⁾	3-5	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
4.0 ⁽¹⁾	2-7	CWZ	<0.5% HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
400 ⁽¹⁾	3 & 4	CWZ	<0.5% HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1-2	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
50 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
6.0 ⁽¹⁾	2-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
70 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	
95 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁵⁾	Complies ⁽⁴⁾	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductors only.
2. These cables met category CWZ when tested for voltage rating 600/1000V.
3. EN 61034-2:2005 approval applies to the 35mm² cable at 3 & 4 cores only
4. The BETAflam FR-MI 90 Cable Multicore STA Cables met the requirements of IEC, 60331-21:1999 when tested at a temperature of 950°C and at a voltage rating of 600/1000V.
5. The flame test IEC 60332-1-2 is fulfilled for the complete cable and for the insulated conductor without sheath.

Certificate No: 896g to BS 6387:2013 Category CWZ, EN 60754-1:2014, EN 61034-2:2005+A1:2013. IEC 60332-1-2:2004, IEC 60331-21:1999 and IEC 60332-3-24:2000

BETAflam FR-MI 90 Cable Multicore SWA

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 60754-1	EN 61034-2	IEC 60332-1	IEC 60331-21	IEC 60332-3-24	LPCB Ref. No.
10 ⁽¹⁾	3-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	896g/03
120 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
150 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
16 ⁽¹⁾	3-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
185 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
2.5 ⁽¹⁾	2-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
240 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
25 ⁽¹⁾	3-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
300 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
35 ⁽¹⁾	3-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
4.0 ⁽¹⁾	2-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
400 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
50 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
6.0 ⁽¹⁾	2-5	CWZ	<0.5%HCl	>60%	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
70 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	
95 ⁽¹⁾	3 & 4	CWZ	<0.5%HCl	-	Complies ⁽⁴⁾	Complies ⁽³⁾	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductors only.
2. These cables met category CWZ when tested for voltage rating 600/1000V.
3. The BETAflam FR-MI 90 Cable Multicore SWA Cables met the requirements of IEC, 60331-21:1999 when tested at a temperature of 950°C and at a voltage rating of 600/1000V.
4. The flame test IEC 60332-1 is fulfilled for the complete cable and for the insulated conductor without sheath.

Certificate No: 896d to BS 6387:2013 (C W Z) EN 60754-1:2014 IEC 60754-1:2011 EN / IEC 61034-2:2005+A1:2013 IEC 60331-21:1999 EN / IEC 60332-3-24:2009 EN / IEC 60332-1-2:2004

BETAflam FR-MI 110 Cable Comms S/UTP

LPCB Ref. No.

896d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 896a to BS 6387:2013 (Categories CWZ) EN/IEC 60754-1: 2014/2011 EN/IEC 61034-2:2005+A1:2013 IEC 60331-21:1999 EN/IEC 60332-1-2:2004+A11:2016 EN/IEC 60332-3-24:2009 EN/IEC 60332-3-22:2009 EN/IEC 60332-3-23:2009

LPCB Ref. No.

896a/01
896a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 896b to BS 6387:2013 (Categories CWZ) EN/IEC 60754-1: 2014/2011 EN/IEC 61034-2:2005+A1:2013 IEC 60331-21:1999 EN/IEC 60332-3-24:2009 EN/IEC 60332-3-22:2009 EN/IEC 60332-3-23:2009

LPCB Ref. No.

896b/01
896b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

MICC (Shanghai) Electric Co Ltd

801-810, NO.2 Building, Shanghai Technology Innovation Center, 100 Qinzhou Road, Shanghai 200235, China

Tel: 0086 21 5169 1990 • Fax: 0086 21 5228 8095

E-mail: sales@miccgroup.com • Website: www.miccgroup.com

Certificate No: 1035a to EN 60702-1:2002 BS 6387:2013 (Category CWZ) EN 50267-2-1:1999 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 BS 5839-1:2013 (Clause 26.2e Enhanced)

MICC Wiring Cable

LPCB Ref. No.

1035a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Mineral Insulated Cable Co Ltd

Temperature House, 21 Sedling Road, Wear Industrial Estate, Washington, Tyne & Wear NE38 9BZ, United Kingdom

Tel: +44 191 416 7777 • Fax: +44 191 419 2345

E-mail: sales@trmltd.co.uk • Website: www.temperature-house.com

Certificate No: 1039a to EN 60702-1:2002, BS 6387:2013 (category C,W,Z), EN 50267-2-1:1999, EN 50200:2006, BS 8434-2:2003+A2:2009 and BS 5839-1:2013 Clause 26.2e

MICC Wiring Cable

LPCB Ref. No.

1039a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

NAJD ELECTRICALS & SAFETY EQUIPMENT TRADING

Dubai - Al Jadaf, Dy: 136 - Shop No. 1, Dubai 85961, United Arab Emirates

Tel: +971 4 267 5414 • Fax: +971 4 267 5443

E-mail: najdelec@emirates.net.ae • Website: www.najdelec-safety.com

Certificate No: 568d-(cl-1) to IEC 60331-21: 1999, BS EN 50267-2-1: 1999 and BS EN 61034-2: 2005

JST Fire Cable IEC 60331

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	IEC 60331-21	BS EN 50267-2-1	BS EN 61034-2	LPCB Ref. No.
1.0 ⁽¹⁾	2, 3 & 4	Complies	<0.5% HCl	>60%	568d/01
1.5 ⁽¹⁾	2, 3 & 4	Complies	<0.5% HCl	>60%	
2.5 ⁽¹⁾	2, 3 & 4	Complies	<0.5% HCl	>60%	

U_o/U 300/500V

Note:

1) Solid and Stranded conductors.

Certificate No: 568a-(cl-4) to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005 EN 50200:2015 (Class PH60 & PH120)

JST FIRE CABLE

LPCB Ref. No.
568a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568c-(cl-9) to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH120 EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

JST FIRE CABLE

LPCB Ref. No.
568c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568j-(cl-3) to BS 7629-1:2015 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 60332-1-2:2004 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 5839-1:2013 (Clause 26.2e Enhanced)

JST Fire Cables Plus

LPCB Ref. No.
568j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

National Cables Industry

Plot No. 06, Al Sajja Industrial Estate, Al Dhaid Road, Sharjah, United Arab Emirates

Tel: 00971 65311888

E-mail: altaf@nci.ae • Website: www.nci.ae

Certificate No: 1246a to BS 7846:2015 Cat F2

LPCB Ref. No.
1246a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1246b to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 50200 PH120:2015 EN 50200:2006 Annex E (30 mins)

NCI-FP1

LPCB Ref. No.

1246b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1246c to BS 6387:2013 (Category CWZ) EN 50200:2015 (PH120) BS 8434-2:2003+A1:2009 EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 60332-1-2:2004+A11:2016

NCI-FP2

LPCB Ref. No.

1246c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1246e to BS 7846: 2015 Cat F2 & F120

NCI-FP6

LPCB Ref. No.

1246e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Newage Cables Pvt Ltd

Newage House 33K, Gulberg-2, Lahore 54660, Pakistan

Tel: +92 300 846 1900

E-mail: amer@newagecables.com • Website: www.newagecables.com

Certificate No: 1518a to BS 6387:2013 (Category CWZ) BS 8491:2008 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 EN 60332-3-24:2009

NF 1000

LPCB Ref. No.

1518a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Nexans Turkiye Endustri ve Ticaret A.S.

Bozburun Mahallesi, Ahmet Nuri Erikoglu Caddesi No: 2, Denizli, Turkey

Tel: 0090 212 266 0160 • Fax: 0090 212 266 0170

E-mail: Info.turkey@nexans.com • Website: www.nexans.com.tr

Certificate No: 946c to BS 6387:2013 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-23:2009 EN 60332-3-24:2009 EN 50200:2006 (Class PH120) IEC 60331-21:1999

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

ALSECURE PLUS NX300

LPCB Ref. No.

946c/01
946c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 946a to BS 7846: 2015 (Category F2) EN 50200:2015 PH120

NX 400 ALSECURE PLUS

LPCB Ref. No.

946a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 946d to BS 7846:2015 Category F2 & F120 EN 60754-2:2014 IEC 60331-21:1999

NX 600 ALSECURE PLUS

LPCB Ref. No.

946d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 946b to BS 8592:2016 BS 6387:2013 CWZ EN 50200:2015 PH120 EN 50200:2015 Annex E BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014

NX 100 ALSECURE PLUS

LPCB Ref. No.

946b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ningbo Haishu Tianyu Cables & Wire Co., Ltd

Zhongyi Village, Gulin Town, Haishu District, Ningbo City, Zhejiang Province 315177, China

Tel: +86 574 2788 6208 • Fax: +86 574 8829 0822

E-mail: minpor@minpor.com • Website: www.minpor.com

Certificate No: 1569a to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2e Enhanced)

Minpor Fire Resistance Cable

LPCB Ref. No.

1569a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ningbo Lingtong Electronic Appliance Co.,Ltd

No.58 Yufu Road, Mazhu Town, Yuyao city, Ningbo Zhejiang, China

Tel: +86 574 6264 0019 • Fax: +86 574 6264 8268

E-mail: good2@chinalingtong.com • Website: www.chinalingtong.com

Certificate No: 1443a to EN 50200:2015 (Class PH120) EN 50200:2015 (Annex E) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60332-1-2:2004

Fire Resistant Cable

LPCB Ref. No.

1443a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Norden Communication UK Ltd

Unit 13 Baker Close, Oakwood Business Park, Clacton-On-Sea, Essex CO15 4BD, United Kingdom

Tel: +44 (0) 207 788 7663 • Fax: +44 (0) 203 292 1987

E-mail: sales@nordencommunication.com • Website: www.nordencommunication.com

Certificate No: 711d-(cl-2) to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH120) EN 50200:2006 Annex E (30 mins) BS 8519 (Clause11) BS 5266-1 (Clause 8.2.2a) BS 5839-6 (Clause 16.2) BS 5839-8 (Clause 27.6) BS 5839-1:2013 (Clause 26.2d Standard)

Fire Resistant Cable PH 120 SFR Insulation

LPCB Ref. No.

711d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 948a-(cl-1) to EN 60702-1:2002 and BS 6387:2013 (Category C,W,Z)

NORDEN MI BARE CABLE (LIGHT DUTY)

LPCB Ref. No.

948a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 948b-(cl-1) to EN 60702-1:2002, BS 6387:2013 (Category C,W,Z), EN 50200:2006 (Class PH120), BS 8434-2:2003+A2:2009 (120mins), BS 5839-1:2013 (Clause 26.2e) and EN 50267-2-1:1999

NORDEN MI SERVED CABLE (LIGHT DUTY)

LPCB Ref. No.

948b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1469a-(cl-1) to BS 7629-1:2015 (Standard 60) BS 6387:2013 (Category CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2015 (Class PH120) EN 50200: 2015 Annex E EN 60754-2:2014 EN 60332-3-22:2009

Firenor Premium Cable

LPCB Ref. No.

1469a-(cl-1)/01

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 711e-(cl-2) to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 50200:2015 (Class PH30) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1::2013

FireNor PH30

LPCB Ref. No.
711e-(cl-2)/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Nuhas Oman L.L.C

P.O Box 186, Road No. 2, Plot No. 70, Rusayl Industrial Estate 124, Sultanate of Oman

Tel: +968 24449007

Website: www.nuhasoman.com

Certificate No: 1341a to BS 7846:2009 Category F2

Nominal csa of conductor (mm ²)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	1341a/01
2.5	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
4.0	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
6.0	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
10	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
16	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
25	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
35	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
50	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
70	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
95	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
120	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
150	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
185	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
240	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
300	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	
400	2,3 & 4 ⁽¹⁾	F2 ⁽²⁾	

Uo/U 600/1000V

Notes

1. Stranded conductors only.
2. In meeting the requirements to BS 7846:2009 Category F2, the Fire Resistant Cables listed met the requirements for smoke density of EN 610344-2:2005, fire resistance requirements to BS 6387:2013 Categories CWZ and achieved less than 0.5% HCI for the insulation, tapes, bedding and outer covering when tested in accordance with EN 50267-2-1:1999.

Certificate No: 1341b to BS 7629-1:2015 Standard 60 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

LPCB Ref. No.
1341b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

nVent Solutions (UK) Limited

3 Rutherford Road, Stephenson Industrial Estate, Washington, Tyne & Wear NE37 3HX, United Kingdom
E-mail: Gerry.DeBlick@nVent.com • Website: www.nVentthermal.com

Certificate No: 063d to EN 60702-1:2002+A1:2015 BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) BS 5839-1:2013 (Clause 26.2e Enhanced)

PYROTENAX Pyro MI

LPCB Ref. No.

063d/01
063d/02
063d/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

OLYMPIC CABLE COMPANY SDN. BHD.

Lot PT 2126-2131, Jalan PK1, Taman Perindustrian Krubong, 75250 Melaka, Malaysia
Tel: +606 337 3088 • Fax: +606 335 1911
E-mail: chauchiang.tan@olympic-cable.com.my • Website: www.olympic-cable.com.my

Certificate No: 1122a to BS 6387: 2013, EN 60754-1:2014, EN 60754-2:2014, EN 61034-2: 2005+A1:2013, IEC 60331-21: 1999, IEC 60332-3-22: 2009, IEC 60332-3-23:2009 and IEC 60332-3-24: 2009

OCC-F6C01

LPCB Ref. No.

1122a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1122b to BS 6387:2013 EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 IEC 60332-3-22:2009 IEC 60332-3-23:2009 IEC 60332-3-24:2009

FRMI-F6A01

LPCB Ref. No.

1122b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Oman Cables Industry (SAOG)

Road No.2, Factory No. 206, Rusayl Industrial Estate, Rusayl, Muscat, Sultanate of Oman
Tel: +968 24443100 • Fax: +968 24446096
E-mail: omancables@omancables.com • Website: www.omancables.com

Certificate No: 995b to BS 6387:2013, EN 50267-2-1:1999, EN 61034-2:2005, IEC 60332-3-24:2009 and IEC 60331-21:1999.

OCIFLAM-FS1

LPCB Ref. No.

995b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Certificate No: 995c to BS 7846:2015 Category F2 & F120 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 8434-2:2003+A2:2009 (120 mins) IEC 60331-21:1999

OCIFLAM1 PREMIUM

LPCB Ref. No.

995c/01
995C/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 995a to BS 7846:2015 Category F2

OCIFLAM-FSA

LPCB Ref. No.

995a/01
995a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Paramount Communications Limited

Plot No. SP-30A, SP-30B & E-31, RIICO Industrial Area, Khushkhera (Near Bhiwadi), Budi Bawal (Karoli), Alwar, Rajasthan 301 707, India

Tel: +91 997 171 2846 • Fax: +91 149 325 0222

E-mail: mktg@paramountcables.com • Website: www.paramountcables.com

Certificate No: 1261a to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013 EN 60332-3-24:2009

FireSecure Cable

LPCB Ref. No.

1261a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1261b to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 60332-3-24:2009 BS 8491:2008

FireSecure Punch Cable

LPCB Ref. No.

1261b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

Polycab India Ltd

Polycab House, 771 Mogul Lane, Mahim (West), Mumbai, Maharashtra 400 016, India

Tel: +91 267 622 7374

E-mail: rithesh.karkera@polycab.com • Website: www.polycab.com

Certificate No: 1628a to BS 6387:2013 (CWZ) EN 60332-1-2:2004 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60332-3-24:2009

Polycab Electric Cables

LPCB Ref. No.

1628a

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Prysmian Cables & Systems Limited

Energy Cables, Chickenhall Lane, Bishopstoke, Eastleigh, Hants SO50 6YU, United Kingdom

Tel: +44 (0)8457 678345 • Fax: +44 (0)2380 295465

E-mail: cables.marketing.uk@prysmian.com • Website: www.prysmian.co.uk

Certificate No: 077c to BS 6387: 2013, EN 50267-2-1: 1999 and IEC 60331-21: 1999

FP100 Fire resistant single core cable for installation in conduit

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 50267-2-1 (outer covering)	IEC 60331-21	LPCB Ref. No.
16	One	CWZ	-	Complies	077c/01
25	One	CWZ	-	Complies	
35	One	CWZ	-	Complies	
50	One	CWZ	-	Complies	
70	One	CWZ	-	Complies	
95	One	CWZ	-	Complies	
120	One	C	-	Complies	
150	One	C	-	Complies	
185	One	-	-	Complies	
240	One	-	-	Complies	
300	One	-	-	Complies	
400	One	-	-	Complies	
500	One	-	-	Complies	
630	One	-	-	Complies	

Uo/U 450/750 V

Uo/U 600/1000 V

Notes:

- Standard conductor only.
- Where a single cable is fitted to a conduit, only phase to earth voltage was applied.
- To satisfy the requirement of BS 6387, testing for C, W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
- To satisfy the requirement of BS 6387, testing for W & Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
- To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
- The FP100 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Certificate No: 077b to BS 6387:2013 CWZ EN 61034-2:2005+A1:2013 EN 60754-1:2014

FP300 and FP400 fire resistant cable LSOH outer covering

LPCB Ref. No.
077b/01
077b/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077g to BS 7629-1: 2015 (ENHANCED 120), BS 6387: 2013 (C,W,Z), EN 50200: 2015 Class PH120, BS 8434-2: 2003+A2:2009 (120mins) and BS 5839-1: 2013 (Clause 26.2e Enhanced)

FP Plus

LPCB Ref. No.
077g/02
077g/03

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Certificate No: 077f to BS 7629-1:2015 (Standard 30) BS 7629-1:2015 (Standard 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH30 & PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FP200 Gold

LPCB Ref. No.
077f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077e to BS 6387:2013 (Category CWZ) EN 60754-1:20014, IEC 60331-21:1999

FP 300 and FP 300MI single core cable

LPCB Ref. No.
077e/01
077e/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077n to BS 8491: 2008, EN 60754-1: 2014 and BS EN 61034-2: 2005

FP600S

LPCB Ref. No.
077n/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 077a to BS 7629-1: 1997 (Incorporating Amendments 1 & 2)

FP200 Gold LSOH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1 (Incorporating Amendments Nos. 1 and 2)	LPCB Ref. No.
1.0	7	Complies ⁽²⁾	077a/02
1.5	7, 12 & 19	Complies ⁽²⁾	
2.5	7 & 12	Complies ⁽²⁾	

Uo/U 300/500V

Notes:

- 1) Solid conductor only
- 2) In meeting the requirements of BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2), the FP200 Gold LSOH cables listed met the requirements for smoke density of EN 61034-2, the fire resistance requirements in BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1: 1999.

Certificate No: 077a to BS 7629-1: 1997 (Incorporating Amendments 1 & 2)

FP200 Flex

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1 (Incorporating Amendments Nos. 1 and 2)	LPCB Ref. No.
1.0	2, 3 & 4	Complies ⁽³⁾	077a/03
1.5	2, 3 & 4	Complies ⁽³⁾	
2.5	2, 3 & 4	Complies ⁽³⁾	

Uo/U 300/500V

Note:

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

- 1) Solid conductor only
- 2) Stranded conductor only
- 3) In meeting the requirements of BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2), the FP200 Flex cables listed met the requirements for smoke density of EN 61034-2: 2005, the fire resistance requirements in BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1: 1999.

Certificate No: 077b to BS 6387: 2013 and EN 50267-2-1: 1999

FP200 Gold LSOH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 6387	EN 50267-2-1 (binder tape & outer covering)	LPCB Ref. No.
2.5	19	C & W	<0.5% HCl	077b/03

Uo/U 300/500V

Notes:

- 1) Stranded conductors only

Certificate No: 077c to BS 6387: 2013, EN 50267-2-1: 1999 and IEC 60331-21: 1999

FP100 Fire resistant single core cable for installation in conduit

Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 50267-2-1 (outer covering)	IEC 60331-21	LPCB Ref. No.
1.0	One	C, W, Z	<0.5% HCl	-	077c/01
1.5	One	C, W, Z	<0.5% HCl	-	
2.5	One	C, W, Z	<0.5% HCl	-	
4.0	One	C, W, Z	<0.5% HCl	-	
6.0	One	C, W, Z	<0.5% HCl	-	
10	One	C, W, Z	<0.5% HCl	-	

Uo/U 450/750V

Certificate No: 077h to BS 7629-1: 2015 (ENHANCED 120), EN 50200: 2015 (Class PH120), BS 8434-2: 2003+A2:2009 (120min), BS 5839-1: 2013 (Clause 26.2e Enhanced), BS 6387:2013 (C,W,Z)

FP Plus Flex

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.5	2,3 & 4 ⁽¹⁾	ENHANCED 120 ⁽³⁾	C,W,Z	PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	077h/01
2.5	2,3 & 4 ⁽²⁾	ENHANCED 120 ⁽³⁾	C,W,Z	PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	
4.0	2,3 & 4 ⁽²⁾	ENHANCED 120 ⁽³⁾	C,W,Z	PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	
1.0	2 ⁽¹⁾	ENHANCED 120 ⁽³⁾	C,W,Z	PH120	120min ⁽⁴⁾	Enhanced ⁽⁵⁾	

Uo/U 300/500V

Notes:

- 1) Solid conductor only.
- 2) Stranded conductor only.
- 3) In meeting the requirements of BS 7629-1: 2015, the FP Plus Flex cables listed met the requirements for smoke density of EN 61034-2: 2005+A1:2013, and achieved less than 0.5%HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
- 4) The duration of 120min when tested in accordance with BS 8434-2: 2003 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.
- 5) The FP Plus Flex cables listed conform to BS 7629-1: 2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met a duration of 120min when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1: 2013.

Certificate No: 077j to BS 7629-1: 1997

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

FP200 Gold LSOH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1	LPCB Ref. No.
1.0	7	Complies	077j/01
1.5	7, 12 & 19	Complies	
2.5	7 & 12	Complies	

Uo/U 300/500V

Notes:

- 1) Solid conductor only.
- 2) In meeting the requirements of BS 7629-1: 1997, the FP200 Gold LSOH cables listed met the requirements for smoke density of EN 61034-2:2005, the fire resistance requirements of BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1:1999.
- 3) BS 7629-1: 1997 was amended in 2004 to implement the changes to the identification of cores by colours, in accordance with the CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.

Certificate 077a covers cables certified in accordance with BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2)

Certificate No: 077j to BS 7629-1: 1997

FP200 Flex

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1	LPCB Ref. No.
1.0	2, 3 & 4	Complies	077j/02
1.5	2, 3 & 4	Complies	
2.5	2, 3 & 4	Complies	

Uo/U 300/500V

Notes:

- 1) Stranded conductor only.
- 2) In meeting the requirements of BS 7629-1: 1997, the FP200 Flex cables listed met the requirements for smoke density of EN 61034-2:2005, the fire resistance requirements of BS 6387: 2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1:1999.
- 3) BS 7629-1: 1997 was amended in 2004 to implement the changes to the identification of cores by colours, in accordance with the CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.

Certificate 077a covers cables certified in accordance with BS 7629-1: 1997 (Incorporating Amendments Nos. 1 & 2)

Certificate No: 077k to BS 7629-1:1997, EN 50200:2006, EN 50200:2006 Annex E and BS 5839-1 2013.

FP200 Gold LSOH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 7629-1	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2	LPCB Ref. No.
1.0	2, 3 & 4 ⁽¹⁾	Complies ^(3,4)	PH30	30 min	Standard	077k/01
2.5	2, 3 & 4 ⁽¹⁾	Complies ^(3,4)	PH30 & PH60	30 min	Standard	
4.0	2, 3 & 4 ⁽²⁾	Complies ^(3,4)	PH30 & PH60	30 min	Standard	
1.5	2, 3 & 4 ⁽¹⁾	Complies ^(3,4)	PH30 & PH60	30 min	Standard	

Uo/U 300/500V

Notes:

- 1) Solid conductor only.
- 2) Stranded conductor only.
- 3) In meeting the requirements of BS 7629-1:1997, the FP200 Gold LSOH cables listed met the requirements for smoke density of EN 61034-2:2005, the fire resistance requirements in BS 6387:2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1:1999.

- 4) BS 7629-1:1997 was amended in 2004 to implement the changes to the identification of cones by colours, in accordance with CENELEC Harmonisation Document HD 308 S2. The un-amended version of the standard was withdrawn on 31st March 2006. However, cables with the old identification colours, meeting the withdrawn version of the standard, are still requested by some regulators outside of the EU. Certification to the un-amended version of the standard has therefore been maintained, for the time being, to satisfy the requirements of these regulators.
- 5) The duration of 30 min when tested in accordance with EN 50200:2006 Annex E is achieved by 15 min for the fire and mechanical shock phase and a further 15 min for the fire, mechanical shock and water phase.
- 6) The FP200 Gold LSOH cables listed conform to BS 7629-1:1997, met Class PH30 when tested in accordance with EN 50200:2006 and met the 30min duration when tested in accordance with EN 50200:2006 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2 of BS 5839-1:2013

Certificate 077f covers cables certified in accordance with BS 7629-1:2008.

Certificate No: 077p to BS 6387:2013, EN 50267-2-1:1999, EN 61034-2:2005 and IEC 60331-21:1999.

FP100 LSOH

Nominal csa of conductor (mm ²)	Core construction (see note 1)	BS 6387	EN 50267-2-1	EN 61034-2	IEC 60331-21	LPCB Ref. No.
1.5	One	C,W,Z	<0.5% HCl	>60%	Complies	077p/01
2.5	One	C,W,Z	<0.5% HCl	>60%	Complies	
4.0	One	C,W,Z	<0.5% HCl	>60%	Complies	
6.0	One	C,W,Z	<0.5% HCl	>60%	Complies	
10	One	C,W,Z	<0.5% HCl	>60%	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. To satisfy the requirement of BS 6387:2013, for Categories C,W,Z, testing was conducted using a 20mm stainless steel conduit as the other metallic element.
4. The FP100 LSOH cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Prysmian Cables & Systems Limited

Energy Cables Unit, Wrexham Industrial Estate, Wrexham LL13 9PH, United Kingdom
 Tel: +44 (0)1978 662345 • Fax: +44 (0)1978 662292
 E-mail: cables.marketing.uk@prysmian.com • Website: www.prysmian.co.uk

Certificate No: 517b to BS 6387:2013 CWZ, EN 61034-2:2005+A1:2013 and EN 60754-1:2014

FP400 Fire Resistant Cable

LPCB Ref. No.
517b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 517a to BS 6387: 2013 (Category CWZ), EN 60754-1: 2014 and IEC 60331-21: 1999

FP300 Single Core LSZH Cable

LPCB Ref. No.
517a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 517c to BS8491:2008 EN 60754-1:2014 BS EN 61034-2:2005

FP600S

LPCB Ref. No.
517c/01

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 517d to IEC 60331-21:1999 and EN 60754-1:2014

FP300MI

LPCB Ref. No.

517d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PYRONEX ELECTRICAL EQUIPMENT TRADING

PO Box 6473, Dubai, United Arab Emirates

Tel: +9714 3362646

E-mail: sales@firenixcables.com • Website: www.pyronexfire.com

Certificate No: 568c-(cl-2) to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH30/PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

FIRENIX PH 120

LPCB Ref. No.

568c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568a-(cl-8) to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005 EN 50200:2015 (Class PH60 & 120)

FIRENIX BASIC

LPCB Ref. No.

568a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568j-(cl-1) to BS 7629-1:2015 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 60332-1-2:2004 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 5839-1:2013 (Clause 26.2e Enhanced)

FIRENIX PH120 Enhanced

LPCB Ref. No.

568j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Qatar International Cables Company (QICC - Nexans)

PF 65 Light Industrial St., 707, Umm Mesaieed Area, P O Box 15991, Doha, Qatar

Tel: +974 4408 5119 • Fax: +974 4467 3230

E-mail: lotfi.ouerghi@nexans.com • Website: www.nexans.qa

Certificate No: 1262b to BS 7846:2009 Cat F2, IEC 60331-21:1999 and EN 50267-2-3: 1999

PART 1: SECTION 8.1
FIRE RESISTANT CABLES

ALSECURE PLUS NX400

Nominal csa of Conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7846	IEC 60331-21	EN 50267-2-3	LPCB Ref. No.
16	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	1262b/01
25	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
35	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
50	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
70	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
95	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
120	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
150	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
185	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
240	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
300	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	
400	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	Complies ⁽³⁾	Complies	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. In meeting the requirements of BS 7846:2009 Category F2, the ALSECURE PLUS NX400 cables met the requirements for smoke density to EN 61034-2:2005, fire resistance to BS 6387:2013 CWZ and achieved less than 0.5%HCI on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 50267-2-1:1999.
3. The ALSECURE PLUS NX400 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 850°C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Certificate No: 1262a to BS 6387:2013 (Category CWZ) EN 60754-1:2014 EN 60754-2:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999 EN 60332-3-24:2009

ALSECURE PLUS NX100

LPCB Ref. No.
1262a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1262d to BS 7846:2015 Cat F2 BS 7846:2015 Cat F120 EN 60754-2:2014 IEC 60331-21:1999

ALSECURE PLUS NX600

LPCB Ref. No.
1262d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Rafic Gazzaoui & Co S. A. L.

Ramlet El-Bayda, Venezuela Street, Jamil Ibrahim Building, Beirut 20471504, Lebanon

Tel: +961 185 5888 • Fax: +961 185 8555

E-mail: Mohamad.wadi@gazzaoui.com.lb • Website: www.gazzaoui.com

Certificate No: 568a-(cl-9) to BS 6387: 2013 (Category CWZ) EN 60754-1: 2014 EN 61034-2: 2005 EN 50200: 2015 (Class PH60 & PH120)

GAMMAFIRECRO-F3-FIRE RESISTANT Cable

LPCB Ref. No.
568a/02-(cl-9)

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

RAMCRO S.p.A.

Via Marzorati, 15 - 20014 Nerviano, Milan, Italy

Tel: +39 0331 406511 • Fax: +39 0331 406559

E-mail: ramcro@ramcro.it • Website: www.ramcro.it

Certificate No: 568g to IEC 60331-21:1999 IEC 60332-1-2:2004 EN 61034-2:2005 EN 60754-1:2014

LPCB Ref. No.

568g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568h to IEC 60331-25:1999 IEC 60332-1-2:2004 EN 61034-2:2005 EN 60754-1:2014

LPCB Ref. No.

568h/01

568h/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568f to EN 50200:2015 (Class PH 120) EN 60754-1:2014 EN 61034-2:2005+A1:2013

LPCB Ref. No.

568f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568d to IEC 60331-21: 1999 EN 50267-2-1: 1999 EN 61034-2: 2005

Ramfirecro-F3 FIRE SAFE

LPCB Ref. No.

568d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568i to EN 50200:2015 PH30 EN 61034-2:2005+A1:2013 EN 60754-1:2014

LPCB Ref. No.

568i/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568a to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005 EN 50200:2015 (Class PH60 & PH120)

Ramfirecro-F3 FIRE PLANET

LPCB Ref. No.

568a/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568e to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 60754-2:2014 EN 60332-3-24:2009 EN 60332-1-2:2004

Ramfirecro-F3 FIRE GROUND

LPCB Ref. No.
568e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568c to BS 7629-1:2008 BS 6387:2013 (CWZ) EN 50200:2006 (Class PH30/PH120) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard)

Ramfirecro-F3 Standard FIRE SUN

LPCB Ref. No.
568c/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 568j to BS 7629-1:2015 EN 50200:2006 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 60332-1-2:2004 EN 61034-2:2005+A1:2013 EN 60754-2:2014 BS 5839-1:2013 (Clause 26.2e Enhanced)

Ramfirecro-F3 FIRE STAR

LPCB Ref. No.
568j/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Riyadh Cables Group

2nd Industrial City, Al Kharj Road, Street No. 175, 3rd Lane Zone D, Riyadh, Kingdom of Saudi Arabia
Tel: 00 966 11 265 0850
E-mail: technical@riyadh-cables.com • Website: www.riyadh-cables.com

Certificate No: 1482a to BS 6387:2013 EN 60754-1:2014 EN 61034-2:2005+A1:2013 IEC 60331-21:1999

LPCB Ref. No.
1482a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1482b to BS 7846:2015 Cat F2

RCG-FP4

LPCB Ref. No.
1482b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1482c to BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003+A2:2009 (120 mins) EN 61034-2:2005+A1:2013 EN 60332-1-2:2004+A11:2016 EN 60754-1:2014

RCG-FP2 Multicore cables

LPCB Ref. No.
1482c/01

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1482d to BS 7846:2015 Cat F2

RCG-FP4

LPCB Ref. No.

1482d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Shakun Polymers Private Limited

(Cable Division), Plot No. 4, Silver Industrial Estate, Bhimpore, Patalia Road, Daman 396 210, India

Tel: +91 260 222 1538 • Fax: +91 260 222 1199

E-mail: technical@shakunpolymers.com • Website: www.shakuncables.com

Certificate No: 978c to BS 6387:2013 (CWZ) EN 50200:2006 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FrTek 40E

LPCB Ref. No.

978c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 978d to BS 7629-1:2015 Standard 60 BS 6387:2013 (Category CWZ) EN 50200:2006 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

FrTek20N

LPCB Ref. No.

978d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LIMITED

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom

Tel: +44 1708 377731 • Fax: +44 1708 347637

E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 682c-(cl-2) to BS6387:2013 (Category CWZ), EN 60754-1: 2014, EN 61034-2:2005+A1:2013, EN 50200: 2015 Annex E (30 mins), EN 50200: 2015 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009

Shield-UK Premium

LPCB Ref. No.

682c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682e(cl-2) to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 50200:2015 (Class PH30), EN 60332-3-24:2009 and EN 60332-3-25:2009

Shield-UK Special

LPCB Ref. No.
682e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

SHIELD FIRE, SAFETY AND SECURITY LTD

Redburn House, 2a Tonbridge Road, Romford, Essex RM3 8QE, United Kingdom
Tel: +44 207 712 1610 • Fax: +44 207 712 1578
E-mail: shielduk@shieldglobal.com • Website: www.shieldglobal.com

Certificate No: 682a-(cl-5) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

Shield-UK

LPCB Ref. No.
682a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Tai Sin Electric Limited

24 Gul Crescent, Jurong Town 629531, Singapore
Tel: 65 6672 9292 • Fax: 65 6861 4084
E-mail: yoononn@taisin.com.sg • Website: www.taisin.com.sg

Certificate No: 982d to BS 6387:2013 (Category CWZ) EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 IEC 60331-21:1999 EN 60332-3-22:2009 EN 60332-3-24:2009

FR-H110

LPCB Ref. No.
982d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 982c to BS 6387:2013 (Category CWZ) IEC 60331-21:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 EN 60754-2:2014 EN 60332-3-22:2009 EN 60332-3-24:2009

FR-ZH110

LPCB Ref. No.
982c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

TecniKabel S.p.A.

Via Brandizzo 243, 10088 Volpiano (TO), Italy
Tel: +39 011 995 19 97 • Fax: +39 011 995 30 62
E-mail: clerici@teknikabel.it • Website: www.teknikabel.it

Certificate No: 1352b to BS 6387:2013, EN 50267-2-1:1999, EN 61034-2:2005 and EN 50200:2006 PH30

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

TK FR 30 Standard

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 6387	EN 50267-2-1	EN 61034-2	EN 50200	LPCB Ref. No.
0.5 ⁽¹⁾	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	1352b/01
0.75 ⁽¹⁾	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
1.0 ⁽¹⁾	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
1.5 ⁽¹⁾	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
2.5 ⁽¹⁾	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	
4.0 ⁽²⁾	2, 3 & 4	C, W, Z	<0.5% HCl	>60%	PH30	

Uo/U 300/500

Notes:

1. Solid conductor only.
2. Stranded conductor only.

Certificate No: 1352a to BS 6387:2013 CWZ, EN 50267-2-1:1999, EN 61034-2:2005+A1:2013, EN 50200:2006 Annex E (30 mins), EN 50200:2006 (Class PH120), EN 60332-3-24:2009 and EN 60332-3-25:2009

TK FR 120 Enhanced

LPCB Ref. No.
1352a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1352e to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 (CWZ) EN 60332-3-24:2009

TOL6xD 48 4(12 LWP)VH9M

LPCB Ref. No.
1352e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1352f to IEC 60331-25:1999 EN 61034-2:2005+A1:2013 EN 60754-1:2014 BS 6387:2013 (CWZ) EN 60332-3-24:2009

TOL8xD 96 8(12 LWP)VH9M

LPCB Ref. No.
1352f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1352g to BS 7629-1:2015 Enhanced 120 BS 6387:2013 (Category CWZ) BS 5839-1:2013 Clause 26.2e

TK Flexible Extreme Fire Safety Cable

LPCB Ref. No.
1352g/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1352c to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 (Class PH30)

TK Prime Fire Resistant Cable

LPCB Ref. No.
1352c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1352d to BS 6387:2013 (CWZ) EN 60754-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mns)

TK Supreme Fire Resistant Cable

LPCB Ref. No.
1352d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Tekab Co. LLC

Industrial Area No. 13, PO Box 40474, Sharjah, United Arab Emirates
Tel: 0097 165 034 900
E-mail: Hazem.Khalil@tekab.com • Website: www.tekab.com

Certificate No: 1517b to BS 6387:2013 (Category CWZ) EN 50200:2015 (Class PH120) EN 61034-2:2005+A1:2013 EN 60754-1:2014

Firetek

LPCB Ref. No.
1517b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1517a to BS 8434-2:2003+AM2:2009 EN 61034-2:2005+A1:2013 EN 60754-1:2014

Firetek Plus

LPCB Ref. No.
1517a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

TELE-FONIKA kable S.A.

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Tel: +48 12 652 00 00 • Fax: +48 12 652 51 56
E-mail: robert.slapak@tfkable.com • Website: www.tfkable.com

Certificate No: 1354a to BS 7846:2009 F2 & F120 and BS 8491:2008

FLAME-X 950 SERIES 6

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8491	LPCB Ref. No.
10 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	1354a/01
120 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	
150 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120MIN	
16 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	
185 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120MIN	1354A/01
240 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120MIN	
25 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	1354a/01
300 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120MIN	1354A/01
35 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	1354a/01
4.0 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	
400 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120MIN	1354A/01
50 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	1354a/01
6.0 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	

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FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7846	BS 8491	LPCB Ref. No.
70 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	
95 ⁽¹⁾	3 & 4	F2 ⁽²⁾ & F120 ⁽³⁾	120 Min	

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. In meeting the requirements of BS 7846:2009 Category F2, the FLAME-X 950 SERIES 6 cables met the requirements for smoke density to EN 61034-2:2005, fire resistance to BS 6387:2013 CWZ and achieved less than 0.5% HCI on the insulation, tapes, filler, bedding and outer covering when tested in accordance with EN 50267-2-1:1999.
3. In meeting the requirements of BS 7846:2009 Category F120, the FLAME-X 950 SERIES 6 cables listed met the requirements for 120 minutes fire resistance to BS 8491:2008.

Certificate No: 1354c to BS 7846:2009 Category F2

Nominal csa of conductor (mm ²)	Core Construction	BS 7846	LPCB Ref. No.
1.5	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	1354c/01
2.5	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	
4.0	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	
6.0	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	
10	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	
16	2, 3 & 4 ⁽¹⁾	F2 ⁽²⁾	

Uo/U 600/1000 V

1. Stranded conductors only.
2. In meeting the requirements to BS 7846:2009 Category F2, the FLAME-X 950 SERIES 4 cables listed met the requirements for smoke density of EN 61034-2:2005, fire resistance requirements to BS 6387:2013 Categories CWZ and achieved less than 0.5%HCI for the insulation, tapes, bedding and outer covering when tested in accordance with EN 60754-1:2014.

Certificate No: 1354b to BS 6387:2013 CWZ IEC 60331-21:1999 EN 60754-1:2014 IEC 61034-2:2005+A1:2013 IEC 60332-3-24:2009

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire & earth)	BS 6387	EN 60754-1	IEC 61034-2	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
25	One	CWZ _(2,3 & 4)	<0.5% HCI	>60%	Complies	Complies	1354b/01
35	One	CWZ _(2,3 & 4)	<0.5% HCI	>60%	Complies	Complies	
50	One	CWZ _(2,3 & 4)	<0.5% HCI	>60%	Complies	Complies	
70	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
95	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
120	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
150	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
185	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
240	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
300	One	C ⁽³⁾	<0.5% HCI	>60%	Complies	Complies	
400	One	-	<0.5% HCI	>60%	Complies	Complies	
500	One	-	<0.5% HCI	>60%	Complies	Complies	
630	One	-	<0.5% HCI	>60%	Complies	Complies	
800	One	-	<0.5% HCI	>60%	Complies	Complies	

PART 1: SECTION 8.1
FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	CoreConstruction(excluding drain wire & earth)	BS 6387	EN 60754-1	IEC 61034-2	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
1000	One	-	<0.5% HCl	>60%	Complies	Complies	

U/o/U 600/100V

Notes:

1. Stranded conductor only.
2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
3. To satisfy the requirement of BS 6387, testing for C & W categories was conducted using a 38mm stainless steel conduit as the other metallic element.
4. To satisfy the requirement of BS 6387, testing for Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.
5. The FLAME-X 950 SERIES 3 cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C for a duration of 90mins at a voltage rating of 600V.

Certificate No: 1354d to BS 6387:2013, EN 60754-1:2014. IEC 61034-2:2005+A1:2013, IEC 60331-21:1999 and EN 60332-3-24:2009

Flame-X 950 Series 3

LPCB Ref. No.
1354d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1354e to BS 7629-1:2015 Standard 30 & 60 EN 50200:2015 Annex E BS 6387:2013 (CWZ) BS 5839-1:2013 (Clause 26.2d)

FLAME-X 950 SERIES 2

LPCB Ref. No.
1354e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1354f to BS 7629-1:2015 Enhanced 120 EN 50200:2015 Annex E BS 6387:2013 (CWZ) BS 8434-2:2003+A2:2009 (120 mins)

FLAME-X 950 SERIES 2E

LPCB Ref. No.
1354f/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 814c to BS 6387: 2013, BS EN 50267-2-1: 1999 and IEC 60331-21: 1999

Flame-X 950 SERIES 1

Nominal csa of conductor (mm ²)	Core Construction	BS 6387 (See Notes 2, 6 & 7)	EN 50267-2-1	IEC 60331-21 (See Note 8)	LPCB Ref. No.
1.5	One ⁽¹⁾	C, W, Z ^(2, 5)	<0.5%HCl	Complies ⁽⁶⁾	814c/01
2.5	One ⁽¹⁾	C, W, Z ^(2, 5)	<0.5%HCl	Complies ⁽⁶⁾	
4.0	One ⁽¹⁾	C, W, Z ^(2, 5)	<0.5%HCl	Complies ⁽⁶⁾	
6.0	One ⁽¹⁾	C, W, Z ^(2, 5)	<0.5%HCl	Complies ⁽⁶⁾	
10	One ⁽¹⁾	C, W, Z ^(2, 5)	<0.5%HCl	Complies ⁽⁶⁾	
16	One ⁽¹⁾	C, W, Z ^(3, 4 & 5)	<0.5%HCl	Complies ⁽⁶⁾	
25	One ⁽¹⁾	C, W, Z ^(3, 4 & 5)	<0.5%HCl	Complies ⁽⁶⁾	
35	One ⁽¹⁾	C, W, Z ^(3, 4 & 5)	<0.5%HCl	Complies ⁽⁶⁾	
50	One ⁽¹⁾	C, W, Z ^(3, 4 & 5)	<0.5%HCl	Complies ⁽⁶⁾	
70	One ⁽¹⁾	C, W, Z ^(3, 4 & 5)	<0.5%HCl	Complies ⁽⁶⁾	

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FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	Core Construction	BS 6387 (See Notes 2, 6 & 7)	EN 50267-2-1	IEC 60331-21 (See Note 8)	LPCB Ref. No.
95	One ⁽¹⁾	C, W, Z ^(3, 4 & 5)	<0.5%HCl	Complies ⁽⁶⁾	
120	One ⁽¹⁾	C ^(3, 5)	<0.5%HCl	Complies ⁽⁶⁾	
150	One ⁽¹⁾	C ^(3, 5)	<0.5%HCl	Complies ⁽⁶⁾	
185	One ⁽¹⁾	C ^(3, 5)	<0.5%HCl	Complies ⁽⁶⁾	
240	One ⁽¹⁾	C ^(3, 5)	<0.5%HCl	Complies ⁽⁶⁾	
300	One ⁽¹⁾	C ^(3, 5)	<0.5%HCl	Complies ⁽⁶⁾	
400	One ⁽¹⁾	C ^(3, 5)	<0.5%HCl	Complies ⁽⁶⁾	
500	One ⁽¹⁾	-	<0.5%HCl	Complies ⁽⁶⁾	

Uo/U 600/1000V

Notes:

- 1) Stranded conductor only.
- 2) To satisfy the requirement of BS 6387, testing for C, W & Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.
- 3) To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
- 4) To satisfy the requirement of BS 6387, testing for W & Z categories were conducted using a 20mm stainless steel conduit as the other metallic element.
- 5) Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
- 6) These cables met the requirements of IEC 60331-21: 1999 when tested at a temperature of 950°C and at a voltage rating of 600V.

Certificate No: 814d to BS 7846:2009 Category F2

FLAME-X 950 SERIES 4

Nominal csa of conductor (mm ²)	Core Construction	BS 7846	LPCB Ref. No.
1.5 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	814d/01
2.5 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
4.0 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
6.0 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
10 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
16 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
25 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
35 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
50 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
70 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
95 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
120 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
150 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
185 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
240 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
300 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	
400 ⁽¹⁾	2, 3 & 4	F2 ⁽²⁾	

Uo/U 600/1000V

Notes:

- 1) Stranded conductor only.
- 2) In meeting the requirements of BS 7846:2009 Category F2, the FLAME-X SERIES 4 cables listed met the requirements for fire resistance characteristics Category CWZ specified in BS 6387:2013.

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Certificate No: 222a to BS 7629-1:2015 EN 50200:2006 (Class PH30) EN 50200:2006 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) BS 6387:2013 (Category CWZ)

FIRESAFE TW950

LPCB Ref. No.

222a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Turk Prysmian Kablo ve Sistemleri A.S.

Omerbey Mah, Bursa Asfalti Cad. No: 51, 16941 Mudanya, Bursa, Turkey

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Certificate No: 1151a to BS EN 60332-1-2: 2004, BS EN 60332-3-24: 2009, BS EN 61034-2: 2005, BS EN 50267-2-1: 1999, BS EN 50267-2-2: 1999 and BS EN 50267-2-3: 1999

AFUMEX NHXMH

Nominal csa of conductor (mm ²)	Core construction	EN 60332-1-2	EN 60332-3-24	EN 50267-2-1	EN 50267-2-3 (see note 3)	EN 61034-2	LPCB Ref. No.
1.5 ⁽¹⁾	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	1151a/01
10 ^(1, 2)	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
16 ⁽²⁾	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
2.5 ⁽¹⁾	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
4.0 ⁽¹⁾	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	
6.0 ⁽¹⁾	2, 3, 4 & 5	Complies	Complies	<0.5% HCl	Complies	>60%	

U0/U 300/500V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. In achieving a weighted average of pH greater than 4.3 and a weighted average of Conductivity less than 10µS/mm on the constituent materials when tested in accordance with BS EN 50267-2-3: 1999, the AFUMEX NHXMH cables listed also met the requirements of BS EN 50267-2-2: 1999.

Certificate No: 1151b to BS EN 60332-1-2: 2004, BS EN 60332-3-24: 2009, BS EN 61034-2: 2005, BS EN 50267-2-1: 1999, BS EN 50267-2-2: 1999 and BS EN 50267-2-3: 1999

AFUMEX H07Z1

Nominal csa of conductor (mm ²)	Core construction	BS EN 60332-1-2	BS EN 60332-3-24	BS EN 50267-2-1	BS EN 50267-2-3 (see note 4)	BS EN 61034-2	LPCB Ref. No.
1.5	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	1151b/01
2.5	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
4.0	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
6.0	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
10	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
16	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
25	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
35	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
50	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
70	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
95	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
120	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
150	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
185	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
240	One ⁽³⁾	Complies	Complies	0.5% HCl	Complies	>60%	
10	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
16	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
25	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
35	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
50	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
70	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
95	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	Core construction	BS EN 60332-1-2	BS EN 60332-3-24	BS EN 50267-2-1	BS EN 50267-2-3 (see note 4)	BS EN 60134-2	LPCB Ref. No.
120	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
150	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
185	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
240	One ⁽²⁾	Complies	Complies	0.5% HCl	Complies	>60%	
1.5	One ⁽¹⁾	Complies	Complies	0.5% HCl	Complies	>60%	
2.5	One ⁽¹⁾	Complies	Complies	0.5% HCl	Complies	>60%	
4.0	One ⁽¹⁾	Complies	Complies	0.5% HCl	Complies	>60%	
6.0	One ⁽¹⁾	Complies	Complies	0.5% HCl	Complies	>60%	
10	One ⁽¹⁾	Complies	Complies	0.5% HCl	Complies	>60%	

Uo/U 450/750V

Notes:

1. Solid (Class 1) conductor.
2. Stranded (Class 2) conductor.
3. Flexible (Class 5) conductor.
4. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with BS EN 50267-2-3: 1999, the AFUMEX H07Z1 cables listed also met the requirements of BS EN 50267-2-2: 1999.

Certificate No: 1151c to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, IEC 60331-21:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH FE 180

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
10	One	>60%	<0.5% HCl	Complies	Complies	Complies	1151c/01
120	One	>60%	<0.5% HCl	Complies	Complies	Complies	
150	One	>60%	<0.5% HCl	Complies	Complies	Complies	
16	One	>60%	<0.5% HCl	Complies	Complies	Complies	
185	One	>60%	<0.5% HCl	Complies	Complies	Complies	
240	One	>60%	<0.5% HCl	Complies	Complies	Complies	
25	One	>60%	<0.5% HCl	Complies	Complies	Complies	
300	One	>60%	<0.5% HCl	Complies	Complies	Complies	
35	One	>60%	<0.5% HCl	Complies	Complies	Complies	
4.0	One	>60%	<0.5% HCl	Complies	Complies	Complies	
50	One	>60%	<0.5% HCl	Complies	Complies	Complies	
6.0	One	>60%	<0.5% HCl	Complies	Complies	Complies	
70	One	>60%	<0.5% HCl	Complies	Complies	Complies	
95	One	>60%	<0.5% HCl	Complies	Complies	Complies	

Uo/U 600/1000V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. The AFUMEX N2XH FE 180 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750°C for a duration of 180mins at a voltage rating of 600/1000V.

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

4. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH FE 180 cables listed also met the requirements of EN 50267-2-2:1999.

5. The AFUMEX N2XH FE 180 cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1151c to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, IEC 60331-21:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH FE 180

Nominal csa of conductor (mm ²)	Core Conduction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
1.5	2, 3, 4, 5, 7, 10, 12, 14 & 16	>60%	<0.5% HCl	Complies	Complies	Complies	1151c/01
10 ²⁾	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	Complies	
120	4	>60%	<0.5% HCl	Complies	Complies	Complies	
16 ²⁾	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	Complies	
185	4	>60%	<0.5% HCl	Complies	Complies	Complies	
2.5	2, 3, 4, 5, 7, 10, 12, 14 & 16	>60%	<0.5% HCl	Complies	Complies	Complies	
240	4	>60%	<0.5% HCl	Complies	Complies	Complies	
25	4	>60%	<0.5% HCl	Complies	Complies	Complies	
35	4	>60%	<0.5% HCl	Complies	Complies	Complies	
4.0	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	Complies	
50	4	>60%	<0.5% HCl	Complies	Complies	Complies	
6.0	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	Complies	
70	4	>60%	<0.5% HCl	Complies	Complies	Complies	
95	4	>60%	<0.5% HCl	Complies	Complies	Complies	

Uo/U 600/1000V

Notes:

- Solid conductor only.
- Stranded conductor only.
- The AFUMEX N2XH FE 180 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750°C for a duration of 180mins at a voltage rating of 600/1000V.
- In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH FE 180 cables listed also met the requirements of EN 50267-2-2:1999.
- The AFUMEX N2XH FE 180 cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1151c to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, IEC 60331-21:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH FE 180

Nominal csa of conductor (mm ²)	Core Construction (drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
120/70	3	>60%	<0.5% HCl	Complies	Complies	Complies	1151c/01
150/70	3	>60%	<0.5% HCl	Complies	Complies	Complies	
16/10	3	>60%	<0.5% HCl	Complies	Complies	Complies	
185/95	3	>60%	<0.5% HCl	Complies	Complies	Complies	
240/120	3	>60%	<0.5% HCl	Complies	Complies	Complies	
25/16	3	>60%	<0.5% HCl	Complies	Complies	Complies	
35/16	3	>60%	<0.5% HCl	Complies	Complies	Complies	
50/25	3	>60%	<0.5% HCl	Complies	Complies	Complies	
70/35	3	>60%	<0.5% HCl	Complies	Complies	Complies	

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	Core Construction (drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	IEC 60331-21	EN 60332-3-24	LPCB Ref. No.
95/50	3	>60%	<0.5% HCl	Complies	Complies	Complies	

Uo/U 600/1000V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. The AFUMEX N2XH FE 180 cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750°C for a duration of 180mins at a voltage rating of 600/1000V.
4. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH FE 180 cables listed also met the requirements of EN 50267-2-2:1999.
5. The AFUMEX N2XH FE 180 cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1151d to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	EN 60332-3-24	LPCB Ref. No.
10	One	>60%	<0.5% HCl	Complies	Complies	1151d/01
120	One	>60%	<0.5% HCl	Complies	Complies	
150	One	>60%	<0.5% HCl	Complies	Complies	
16	One	>60%	<0.5% HCl	Complies	Complies	
185	One	>60%	<0.5% HCl	Complies	Complies	
240	One	>60%	<0.5% HCl	Complies	Complies	
25	One	>60%	<0.5% HCl	Complies	Complies	
300	One	>60%	<0.5% HCl	Complies	Complies	
35	One	>60%	<0.5% HCl	Complies	Complies	
4.0	One	>60%	<0.5 HCl	Complies	Complies	
50	One	>60%	<0.5% HCl	Complies	Complies	
6.0	One	>60%	<0.5% HCl	Complies	Complies	
70	One	>60%	<0.5% HCl	Complies	Complies	
95	One	>60%	<0.5% HCl	Complies	Complies	

Uo/U 600/1000V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH cables listed also met the requirements of EN 50267-2-2:1999.
4. The AFUMEX N2XH cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1151d to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	EN 60332-3-24	LPCB Ref. No.
1.5	2, 3, 4, 5, 7, 10, 12, 14 & 16	>60%	<0.5% HCl	Complies	Complies	1151d/01
10 ²⁾	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	
120	4	>60%	<0.5% HCl	Complies	Complies	
150	4	>60%	<0.5% HCl	Complies	Complies	
16 ²⁾	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	

PART 1: SECTION 8.1
FIRE RESISTANT CABLES

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	EN 60332-3-24	LPCB Ref. No.
185	4	>60%	<0.5% HCl	Complies	Complies	
2.5	2, 3, 4, 5, 7, 10, 12, 14 & 16	>60%	<0.5% HCl	Complies	Complies	
240	4	>60%	<0.5% HCl	Complies	Complies	
25	4	>60%	<0.5% HCl	Complies	Complies	
35	4	>60%	<0.5% HCl	Complies	Complies	
4.0	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	
50	4	>60%	<0.5% HCl	Complies	Complies	
6.0	2, 3, 4 & 5	>60%	<0.5% HCl	Complies	Complies	
70	4	>60%	<0.5% HCl	Complies	Complies	
95	4	>60%	<0.5% HCl	Complies	Complies	

Uo/U 600/1000V

Notes:

- Solid conductor only.
- Stranded conductor only.
- In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH cables listed also met the requirements of EN 50267-2-2:1999.
- The AFUMEX N2XH cables listed also met the requirements of EN 60332-1-2:2004.

Certificate No: 1151d to EN 61034-2:2005, EN 50267-2-1:1999, EN 50267-2-2:1999, EN 50267-2-3:1999, EN 60332-1-2:2004, EN 60332-3-24:2009

AFUMEX N2XH

Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	EN 61034-2	EN 50267-2-1	EN 50267-2-3	EN 60332-3-24	LPCB Ref. No.
120/70	3	>60%	<0.5% HCl	Complies	Complies	1151d/01
150/70	3	>60%	<0.5% HCl	Complies	Complies	
16/10	3	>60%	<0.5% HCl	Complies	Complies	
185/95	3	>60%	<0.5% HCl	Complies	Complies	
240/120	3	>60%	<0.5% HCl	Complies	Complies	
25/16	3	>60%	<0.5% HCl	Complies	Complies	
35/16	3	>60%	<0.5% HCl	Complies	Complies	
50/25	3	>60%	<0.5% HCl	Complies	Complies	
70/35	3	>60%	<0.5% HCl	Complies	Complies	
95/50	3	>60%	<0.5% HCl	Complies	Complies	

Uo/U 600/1000V

Notes:

- Solid conductor only.
- Stranded conductor only.
- In achieving a weighted average of pH greater than 4.3 and a weighted average of conductivity less than 10µS/mm on the constituent materials when tested in accordance with EN 50267-2-3:1999, the AFEMEX N2XH cables listed also met the requirements of EN 50267-2-2:1999.
- The AFUMEX N2XH cables listed also met the requirements of EN 60332-1-2:2004.

Union Cable Company Ltd

Unit 15, Faraday Road, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1QF, United Kingdom

Tel: +44 (0)1928 577 418 • Fax: +44 (0)1928 581 099jim@unioncable.co.uk

E-mail: sales@unioncable.co.uk • Website: www.unioncable.co.uk

Certificate No: 682d-(cl-3) to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2 Enhanced) EN 60332-3-24 EN 60332-3-25

PART 1: SECTION 8.1

FIRE RESISTANT CABLES

Firetrax Xcel

LPCB Ref. No.

682d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682a-(cl-2) to BS 7629-1:2015 (STANDARD 60), BS 6387:2013 (CWZ), EN 50200:2015 (Class PH120), EN 50200:2015 Annex E (30 mins), BS 5839-1:2013 (26.2 Standard), EN 603323-24:2009 and EN 60332-3-25: 2009

Firetrax Gold

LPCB Ref. No.

682a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Ventcroft Limited

Faraday Road, Astmoor Industrial Estate, Runcorn, Cheshire WA7 1PE, United Kingdom

Tel: +44 (0)1928 581098 • Fax: +44 (0)1928 581099

E-mail: sales@ventcroft.co.uk • Website: www.ventcroft.co.uk

Certificate No: 682a to BS 7629-1:2015 (STANDARD 60) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) EN 50200:2015 Annex E (30 mins) BS 5839-1:2013 (Clause 26.2d Standard) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn Platinum

LPCB Ref. No.

682a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682d to BS 7629-1:2015 (ENHANCED 120) BS 6387:2013 (CWZ) EN 50200:2015 (Class PH120) BS 8434-2:2003 BS 5839-1:2013 (Clause 26.2e Enhanced) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn Plus

LPCB Ref. No.

682d/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682e to BS 6387:2013 (Category CWZ), EN 60754-1:2014, EN 61034-2:2005+A1:2013, EN 50200:2015 (Class PH30), EN 60332-3-24:2009 and EN 60332-3-25:2009

NoBurn XPS

LPCB Ref. No.

682e/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 682c to BS 6387:2013 (Category CWZ) EN 60754-1-1:2014 EN 61034-2:2005+A1:2013 EN 50200:2015 Annex E (30 mins) EN 50200:2015 (Class PH120) EN 60332-3-24:2009 EN 60332-3-25:2009

NoBurn XP

LPCB Ref. No.

682c/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Wrexham Mineral Cables

Wynnstay Technology Park, Ruabon, Wrexham, Clwyd LL14 6EN, United Kingdom

Tel: +44 (0)1978 810789 • Fax: +44 (0)1978 821502

E-mail: sales@wrexhammineralcable.com • Website: www.wrexhammineralcables.com

Certificate No: 333a to EN 60702-1:2002+A1:2015 BS 6387:2013 CWZ EN 60754-1:2014 EN 50200:2015 PH120 BS 8434-2:2003+A2:2009 BS 5839-1:2013 (Enhanced) BS 8491:2008 BS 8519:2010 Category 3

Wrexham Mineral Insulated Cables

LPCB Ref. No.

333a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the product name in the associated entry on www.RedBookLive.com

PART 1: SECTION 8.2

FIRE RETARDANT CABLES

This section lists fire retardant cables for use in fire safety, fire detection and fire alarm systems and other applications where specifications require cables with specific performance in the event of a fire.

Flame retardant cables are designed with the objective of limiting the generation and spread of fire and smoke.

The below list is typical of the standards to which apply to fire retardant cables

- EN 50267-2-1: Common test method for cables under fire conditions- tests on gases evolved during combustion of materials from cables - procedures - Determination of the amount of halogen acid gas
- EN 50267-2-3: Common test methods for cables under fire conditions - Tests on gases evolved during combustion of materials from cables - Procedure 2-3: Procedures - Determination of degree of acidity of gases for cables by determination of the weighted average of pH and conductivity
- EN 60332-3: Tests on electric and optical fibre cables under fire conditions - Part 3: Test for vertical flame spread of vertically mounted bunched wires or cables
- EN 61034-2: Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2)
- EN 61034-2: Measurement of smoke density of cables burning under defined conditions
- IEC 60754-1: Tests on gases evolved during combustion of materials from cables - Part 1: Determination of the amount of halogen acid gas
- IEC 60754-2: Tests on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
- IEC 61034-2 Measurement of smoke density of cables burning under defined conditions
- IEC 60332-2-22 Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 22: category A
- IEC 60332-2-23 Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 23: category B
- IEC 60332-2-24 Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 24: category C
- IEC 60332-2-25 Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 25: category D
- EN 60332-1-2, Reaction to fire, Tests on electric and optical fibre cables under fire conditions – Part 1 – 2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame

LEONI Studer AG

Herrenmattstr. 20, CH 4658 Däniken, Switzerland

Tel: +41 62 288 82 82 • Fax: +41 62 288 83 83

E-mail: sales-export@leoni.com • Website: www.leoni.com

Certificate No: 896h to EN/IEC 60332-3-24 EN/IEC 61034-2 EN/IEC60754-1 EN/IEC 60332-1-2

Product Name	LPCB Ref. No.
BETAflam FRT-MI90 SCSI Cable	896h/01
BETAflam FRT-MI90 SCDI Cable	896h/02

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

MCI-Draka Cable Co. Ltd

2/7 Moo 2, Banbung-Bankhai Road, KM 57 Nongbua, Bankhai Rayong 22110, Thailand

Tel: +66 3896 1158 60

E-mail: hatthakrit.klinjan@prysmiangroup.com • Website: www.prysmiangroup.com

Certificate No: 1614a to IEC 60754-1:2011 IEC 61034-2:2005+A1:2013

CU/LSHF

Product Name	LPCB Ref. No.
CU/LSHF	1614a/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1614b to IEC 60754-1:2011 IEC 61034-2:2005+A1:2013

MAX-FOH

Product Name	LPCB Ref. No.
MAX-FOH	1614b/01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

Certificate No: 1614c to IEC 60754-1:2011 IEC 61034-2:2005+A1:2013

MAX-FOH (i)

Product Name	LPCB Ref. No.
MAX-FOH (i)	1614c-01

A copy of the certificate, confirming the full scope of approval including notes relating to the superscript references in the above table, may be viewed online by clicking on the certificate link in the associated entry on www.RedBookLive.com

PART 1: SECTION 9

ALARM RECEIVING CENTRES

This section lists Alarm Receiving Centres approved to LPS 1020 *Requirements for Alarm Receiving Centres* and those certified to the requirements of BS 5979 *Code of Practice for Remote Centres Receiving Signals from Security Systems*.

The Fire Service's 'Model Agreement' between the Fire and Rescue authorities and users of remotely monitored fire alarm systems calls for third party certification of both the installer and the Alarm Receiving Centre (ARC).

The LPCB approval scheme based on the criteria of LPS 1020 when used in conjunction with BS 5979 provides the means to achieve the alarm receiving centre requirement of the model agreement. Third party certification of the installer can be achieved via the LPCB's scheme for installers based, on the requirements of LPS 1014 *Requirements for certificated fire detection and alarm systems firms*.

For further details of the 'Model Agreement' contact:-

The Chief Fire Officers' Association
9-11 Pebble Close
Amington
Tamworth
Staffordshire
B77 4RD
Tel: +44 (0) 1827 302 300

Since the Alarm Receiving Centres must have links to the appropriate fire brigade mobilisation centres, the list includes details of the fire authority areas for which they are approved.

LPS 1020 is in the process of being revised. Please check www.RedBookLive.com for updates.

EMCS - East Midlands Central Station Limited

Waterside House, Tissington Close, Chilwell, Nottingham NG9 6QG, United Kingdom
Tel: +44 (0)844 80 999 80 • Fax: +44 (0)844 80 999 70
E-mail: admin@emcs.co.uk • Website: www.emcs.co.uk

Certificate No. CFSA 017 to LPS 1020 Issue 2.1

Alarm receiving equipment: BT Redcare (Incorporating Classic,GSM,AGILE and ASSURE), CSL Dualcom, Emizon21, Webway One Digital Communicators, (Point Id and SIA communication Protocols) CCTV - Adpro, DM and VDT.

Approved fire authority areas of operation: Avon, Bedfordshire, Berkshire, Buckinghamshire, Cambridgeshire, Central Scotland, Cheshire, Cleveland, Cornwall, Cumbria, Derbyshire, Devon, Dorset, Dumfries & Galloway, Durham, Dyfed, East Sussex, Essex, Fife, Gloucestershire, Grampian, Guernsey, Hampshire, Hereford & Worcester, Hertfordshire, Highlands & Islands, Humberside, Isle Of Man, Isle Of Wight, Kent, Lancashire, Leicester, Lincolnshire, London, Lothian & Borders, Manchester, Merseyside, Mid/West Wales, Norfolk, North Wales, North Yorkshire, Northants, Northern Ireland, Northumberland, Oxfordshire, Powys, Shropshire, Somerset, South Wales, South Yorkshire, Staffordshire, Strathclyde, Suffolk, Surrey, West Sussex, Tayside, Tyne & Wear, Warwickshire, West Midlands, West Yorkshire, Wiltshire.

National Monitoring (Prop. AVR Group Limited)

Units 16/24, Attenburys Park Estate, Attenburys Lane, Timperley, Cheshire WA14 5QE, United Kingdom
Tel: (0)333 222 3998

Certificate No. CFSA008 to LPS 1020

Alarm receiving equipment: Telecom Red CARE System.

Approved fire authority areas of operation:
Avon, Bedfordshire, Berkshire, Cambridgeshire, Cheshire, Clwyd, Cumbria, Derbyshire, Devon, Dorset, Essex, Gloucestershire, Hampshire, Hereford & Worcester, Humberside, Lancashire, Leicestershire, Lincolnshire, London, Greater Manchester, Merseyside,

Norfolk, Northamptonshire, Northern Ireland, Nottinghamshire, North Yorkshire, Shropshire, South Yorkshire, Staffordshire, Suffolk, Surrey, Tyne and Wear Warwickshire, West Glamorgan, West Midlands, West Yorkshire, Strathclyde.

Southern Monitoring Services Limited

Security House, 212-218, London Road, Waterlooville, Hampshire PO7 7AJ, United Kingdom

Tel: +44 (0)844 871 2223 • Fax: +44 (0)870 243 330

Certificate No. CFSA003 to LPS 1020

Alarm receiving equipment: Telecom Red CARE System.

Approved fire authority areas of operation:

Avon, Bedfordshire, Berkshire, Buckinghamshire, Cambridgeshire, Cheshire, Cleveland, Clwyd, Cornwall, Cumbria, Derbyshire, Devon, Dorset, East Sussex, Essex, Gloucestershire, Grampian, Greater London, Gwent, Hampshire, Hereford & Worcester, Hertfordshire, Humberside, Isle of Wight, Kent, Lancashire, Leicestershire, Lincolnshire, Lothian, Greater Manchester, Merseyside, Mid Glamorgan, Norfolk, Northamptonshire, North Yorkshire, Nottinghamshire, Oxfordshire, Powys, Shropshire, Somerset, South Glamorgan, South Yorkshire, Staffordshire, Strathclyde, Suffolk, Surrey, Tyne & Wear, Warwickshire, West Glamorgan, West Midlands, West Sussex, West Yorkshire, Wiltshire.

PART 1: SECTION 10

ALARM TRANSMISSION AND FAULT MONITORING EQUIPMENT AND SIGNALLING SYSTEMS

This section of the Red Book lists alarm transmission and fault warning routing equipment suitable for use with fire alarm systems as defined by Figure 1 of EN 54-1: 1996 *Fire detection and fire alarm systems Part 1*.

Alarm transmission equipment suitable for use with intruder alarm and hold-up systems is listed in Volume 2, Part 4, Section 1.2 of the Red Book.

Where alarm transmission equipment may be suitable for use with both fire alarm systems and intruder alarm and hold-up systems the entry for the approved equipment will appear in Volume 1, Part 1, Section 10 and Volume 2, Part 4, Section 1.2 of the Red Book.

Where appropriate, reference is made to published standards and the following standards are currently used for the approval schemes:

- EN 54-21: 2006 *Fire detection and fire alarm systems - Part 21: Alarm transmission and fault warning routing equipment*
- LPS 1277 *Requirements for LPCB Approval and listing of Alarm Transmission Equipment*

EN 54-21: 2006 EN 54-21:2006 is an EU harmonised standard addressing the provisions of the Construction Products Regulation

ANNEX ZA of EN 54-21 states that for CE marking purposes it is not necessary to test the alarm transmission and fault warning routing equipment performance characteristics in conjunction with the transmission networks to confirm the claimed transmission parameters D, M, T, A, S and I. These parameters are however described in the EN 54-21 normative ANNEX A and may be tested as an option. Unless otherwise stated, LPCB approval to EN 54-21 confirms that the routing equipment meets only those requirements of ANNEX ZA relating to the operational and environmental reliability of the item(s) located within the protected premises.

Whereas LPS 1277 includes criteria for both fire and security systems that specifically requires the alarm transmission and fault warning routing equipment to be tested in conjunction with the appropriate transmission networks, particular emphasis is placed on the verification of manufacturers' claims by measuring alarm transmission times over the transmission path(s) between the equipment under test and the corresponding alarm receiving centre. The response to the reporting of fault conditions is measured in a similar way. The results of these measurements are expressed in terms of alarm transmission system (ATS) performance criteria classification, using the parameters D, M, T and where applicable S and I.

Where,

D = Transmission time classification

M = Transmission time maximum values

T = Fault reporting time classification

S = Substitution Security

I = Information Security

Availability is considered a key parameter under LPCB approval and is therefore included within the requirements of LPS 1277 and the resultant performance is expressed using the parameter 'A' for Availability.

To assist specifiers in their selection of the products most appropriate for protecting their risks, the LPCB enhanced performance ratings are included with the product listing entry in the Redbook as an indicator of the level of performance that can be expected from the alarm transmission system.

Products approved to LPS 1277 Issue 3.0 encompass all of the requirements of EN 54-21 and products tested and approved by the LPCB will have met the compliance criteria of EN 54-21 in full. It is therefore recommended that alarm transmission and fault warning routing equipment be approved to LPS 1277 where possible.

Compliance with relevant safety standards and applicable mandatory directives is a pre-requisite of LPCB approval and listing. Regular product auditing and regular factory inspections are carried out by LPCB to ensure high manufacturing standards and continued compliance with the applicable product standard.

Notes:

Since the LPCB uses national and international standards for the listing of products, in some instances the requirements of these standards may conflict with the recommendations of local codes of practice. We recommend that specifiers seek advice from the relevant local authorities and amend their specifications accordingly.

PART 1: SECTION 10.1

ALARM TRANSMISSION AND FAULT WARNING ROUTING EQUIPMENT

Alarm transmission and fault warning routing equipment approved to the requirements of EN 54-21: 2006 *Fire detection and fire alarm systems - Part 21: Alarm transmission and fault warning routing equipment*.

Unless stated otherwise the performance of those components of the alarm transmission and fault warning routing system normally located in the protected premises have been tested and assessed for compliance without connection to the associated alarm transmission networks as prescribed by ANNEX ZA of EN 54-21.

Please check www.RedBookLive.com for updates.

PART 1: SECTION 10.2

SUPERVISED PREMISES TRANSCEIVERS (FIRE) - LPS 1277

Supervised premises transceivers are part of the alarm transmission and fault warning routing equipment. They are located at the protected premises and are connected between the transmission network and the fire alarm control panel.

Specifiers are advised to check the issue of LPS 1277 against which the supervised premises transceiver is approved. The current publication of LPS 1277 is Issue 4.

PART 1: SECTION 11

POWER SUPPLY EQUIPMENT - STANDALONE

This Section lists Power supply equipment which is either not intended to supply power to Fire Alarm Control Panels or which is standalone and has not been tested and approved as part of a Fire Alarm System.

Products listed in this section have been approved to:

- EN 54-4: 1997 *Power supply equipment*;
- EN 54-4: 1997 + A1: 2002 and A2: 2006 *Power supply equipment*;
- ISO 7240-4: 2003 *Power supply equipment*;

Audit:

Regular product auditing and regular factory inspections are carried out by LPCB ensuring high manufacturing standards and continued compliance with the applicable product standard.

Notes:

1. EN 54-4: 1997 is a harmonised standard for the Construction Products Regulation and CE marking is required for most of the European market from 1 August 2009. It is therefore recommended that power supply equipment are certificated to EN 54-4: 1997 + A1: 2002 and A2: 2006.

Kentec Electronics Limited

Units 25-27, Fawkes Avenue, Questor, Dartford, Kent DA1 1JQ, United Kingdom

Tel: +44 (0)1322 222121 • Fax: +44 (0)1322 291794

E-mail: sales@kentec.co.uk • Website: www.kentec.co.uk

Certificate No: 360a to EN 54-4:1997+A1:2002+A2:2006

Power Supply Equipment

Certificated Products

		LPCB Ref. No.
K25800 03	10.25 A Power supply with maximum 8Ah Batteries	360a/01
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	
KD25800 03	Dual O/P 10.25 A Power supply with maximum 8Ah Batteries	360a/02
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	
K25800 15	10.25 A Power supply with maximum 45Ah Batteries	360a/03
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	
KD25800 15	Dual O/P 10.25 A Power supply with maximum 45Ah Batteries	360a/04
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	
K25800 M3	10.25 A Power supply with maximum 18Ah Batteries in M3 housing	360a/05
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB	
KD25800 M3	Dual O/P 10.25 A Power supply with maximum 18Ah Batteries	360a/06
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	
K25800 D3	10.25 A Power supply with maximum 45Ah Batteries in D3 housing	360a/07

PART 1: SECTION 11

POWER SUPPLY EQUIPMENT - STANDALONE

Certificated Products

**LPCB Ref.
No.**

KD25800 D3	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB Dual O/P 10.25 A Power supply with maximum 18Ah Batteries in D3 housing	360a/08
	Incorporating the following units: S408 Power supply module S584 Power supply LED indication PCB S789 Dual output PCB	