Fire and Gas Detection Systems
Introduction

Notifier's third edition of the Fire and Gas Detection Catalogue contains innovative and intelligent products for a broad range of applications in the life safety domain. No matter if you are looking for a solution in Fire and Gas detection, Voice Alarm Evacuation, Automatic Extinguishing Systems, High Sensitive Aspiration Systems or battery operated smoke alarms for residential… you can find it all here!

Notifier by Honeywell has been manufacturing and supplying fire detection and alarm systems for more than 50 years. Having grown to become one of the World’s leading fire detection equipment manufacturers, Notifier by Honeywell has over 400 specialized distribution centers around the world.

The Notifier Academy training program ensures that Engineered System Distributors (ESD) have the technological knowledge to enable them to provide the highest levels of service and support for Notifier systems. Notifier by Honeywell ESD’s are provided with the latest news of product developments and new product releases through regular Technical and Marketing Bulletins. Every trained and certified Notifier engineer receives a personal login to the ESD section of the Notifier website, providing access to the latest online news and technical resources. The “Notifier InfoPoint” app gives mobile iOS and Android users easy and quick access to all Notifier marketing and technical resources.

Respecting the strictest international standards of product and service quality, Notifier by Honeywell activities are accredited to ISO 9001. Notifier products comply with environmental directives like WEEE and REACH and are approved to CPR following EN54 European standards. Most products are certified at European test laboratories to obtain at least one of the following quality labels: BOSEC, LPCB or VdS.

Our customers have the confidence that Notifier by Honeywell can provide complete solutions whatever the needs of the site and building users.

Users of Notifier by Honeywell products enjoy the experience of a leading international company combined with the professional services of a local distributor.

Notifier by Honeywell is part of Honeywell International Inc. with the head office located in Morristown, New Jersey, USA. Honeywell is a technology and manufacturing leader serving customers worldwide with aerospace products and services; control technologies for buildings, homes and industry; automotive products; turbochargers and specialty materials.

Notifier by Honeywell develops cutting edge technology in fire detection solutions, from battery operated smoke alarms for the residential market, simple conventional systems to complex intelligent systems with multiple panels in network. Continuous investment in R&D leads to constantly developing new high technology products to meet the changing needs of our customers and to maintain Notifier’s position at the forefront of the life safety industry.

We are looking forward to continued success in working together.

Your Notifier Team

Legend:

Special product information.

Information regarding the delivery (packing units, special charges, etc.).

Please complete the partnumber with the correct information.

Lead time information

Special information regarding trainings.

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein.

Design features may be changed or amended without prior notice.
Table of Contents

1. Intelligent Systems
   - Example of system overview of NF3000  
   - Intelligent Single Loop Panels  
   - Intelligent Fixed Dual Loop Panels  
   - Pearl Intelligent Panels  
   - Intelligent 2-8 Loop Panels  
   - Modular & Peripheral Devices  
   - Intelligent OPAL detectors  
   - InnovairFLEX™  
   - Intelligent Beam Detectors  
   - Intelligent Manual Call Points  
   - Intelligent Modules  
   - Intelligent Audio Visual range (OPAL™ AV)  
   - Spare parts

2. Conventional Systems
   - Conventional Panels  
   - Conventional Detectors  
   - InnovairFLEX™  
   - Conventional Beam Detectors  
   - Conventional Manual Call Points & Switches  
   - Conventional Audio & Visual Devices - ENscape series  
   - Spare Parts

3. Extinguishing Systems
   - Extinguishing Panels  
   - Manual Control Units  
   - Sprinkler Panels  
   - Emergency Fire Signalling Panels  
   - Sprinklers Systems Monitoring  
   - Spare Parts

4. Special Equipment
   - Aspirating Systems  
   - Sampling Pipes & Fittings  
   - Smoke & Heat Evacuation Systems  
   - Wireless Systems  
   - Linear Heat Detection  
   - Industrial Heat Detectors  
   - Industrial Audio & Visual Devices  
   - Intrinsically Safe Devices  
   - Explosion Proof Devices  
   - Flame Detectors  
   - Spare Parts

5. Gas Detection Systems
   - Unipoint Controllers  
   - Gas Detectors  
   - G-100 Gas Control Panel  
   - BDS Gas Detectors  
   - Sensitron Gas Control Panels  
   - Sensitron Gas Detectors  
   - Gas Detector Accessories  
   - Spare Parts

6. Accessories
   - Power Supplies  
   - Batteries  
   - Electro Magnetic Door Holders  
   - Fire Resistant Cables  
   - Fire Brigade Repeater Panels  
   - Surge Protection Modules  
   - Manual Call Point Accessories  
   - Protective Accessories  
   - Detector Test Equipment  
   - Spare Parts
## Table of Contents

7. Residential Smoke and Gas Detection 255
   X-Series Fire Alarms 257

8. Index 261
Intelligent Systems

NOTIFIER®
by Honeywell
Example of system overview of NF3000

* Note: If more than 512 devices/panel, an E-LIB must be used to comply with EN54-13
** Note: Used in Belgium in order to comply with the NBN-S21.100 installation standard
For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)

Intelligent systems overview

Remote indicators

Intelligent detectors

Duct detector

Beam detector

Aspirating detectors, FAAST and FAAST-LT

Outdoor MCP’s

Indoor MCP’s

Extinguishing Panels RP1r-Supra

Extinguishing Interface

Loop Booster

Intelligent loop powered Audio visual signalling devices

I / O modules

SND REL

Or

Volt Free Contact

Up to 32 conventional devices

Up to 32 devices

Wireless devices

* Note: CLIP protocol only.
The NF50 intelligent panels have been developed by Notifier with efficiency for both installers and end users in mind. The NF50 is provided for use with high sensitive VIEW™ detectors. The NF50 panel will control up to 99 sensors on the single loop and a combination of 99 call points, monitor modules, control modules, conventional interface modules and loop powered sounders.

The NF50 panels allow connections of mimic panels and repeaters (IDR2A and IDR2P) via a RS485 optional interface. With the NF50, we have thrown in a few little extras, such as hassle-free installation, easy programming with “Auto-learn”, simple service and maintenance and Windows®-based design and commissioning tools. The panel is multilingual. The NF50 panels support both the AP and the CLIP protocol.

Bosec approved to EN54-13: Bosec number: B-9057-FD-879/c

Optional: GSM communication kits TG-GSM, ID-CRA, ID-CR-GSM.

Please replace “xx” in the part n° by the code for the needed language:
NL = Dutch; FR = French; UK = English; GE = German

The EN54-13 System certificate (B-9057-FD-879/c) contains the following items:

- **Intelligent fire panel**
  NF50 + (ISOX-8)
  (NF50-A incl. PSU1.5A)
  (NF50-B/C incl. PSU3A)

- **Detectors**
  NFX(I)-OPT
  NFX(I)-TFIX58
  NFX(I)-TFIX78
  NFX(I)-TDIIF
  NFX(I)-SMT2
  NFX(I)-SMT3
  IRX-751CTEM
  FSL-751E

- **Bases**
  BS01AP
  BS24IEFT-1
  BS24HTR
  BS24RTE

- **Beam detectors**
  NFXI-BEAM(-T)

- **Manual call points**
  M700KACI-xx-y
  M700WCP-R/I/Sx

- **Intelligent modules**
  M701, M701-240, M701-240-DIN
  M710, M720
  M710-CZR
  M700X
  M721
  CZ-6
  SC-6
  CMX-10RM
  MMX-10M
  MCX-55M
  NFX-MM1M

- **Sounders**
  CWSx-xx-yy
  NFXI-Bx-yy
  NFXI-Wx-yy

- **Aspiration systems**
  NFXI-ASD11
  NFXI-ASD12
  NFXI-ASD22
  8100E

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
**Intelligent Single Loop Panels**

**NF50/CAB-A1/xx**

NF50 intelligent fire panel

Single loop intelligent fire panel with 16 zones. Including AWACS software for VIEW™ detection functionality.

Options: RS485 (020-553), ISOX-8.

**Specifications**

- Power supply: 1.5 A
- Battery space: 2 x 12Ah/12V batteries
- Color: RAL7021
- Dimensions (WxHxD): 380 mm x 365 mm x 110 mm

**NF50/CAB-B1/xx**

NF50 intelligent fire panel

Single loop intelligent fire panel with 16 zones. Including AWACS software for VIEW™ detection functionality. Printer kit can be added.


**Specifications**

- Power supply: 3 A
- Battery space: 2 x 12Ah/12V batteries
- Color: RAL7021
- Dimensions (WxHxD): 500 mm x 400 mm x 140 mm

**NF50/CAB-C2/xx**

NF50 intelligent fire panel

Single loop intelligent fire panel with 16 zones. Including AWACS software for VIEW™ detection functionality. Printer kit can be added.


**Specifications**

- Power supply: 3 A
- Battery space: 2 x 38Ah/12V batteries
- Color: RAL7021
- Dimensions (WxHxD): 500 mm x 620 mm x 235 mm

**CPD number: 0786-CPD-20851; VDS number: S202097**
Intelligent Fixed Dual Loop Panels

NF3002/CAB-B1/xx

Fixed 2 loop intelligent fire panel

The NF3002 intelligent fire panel offers a technically sophisticated range of facilities and functions. It is a pre-mounted panel limited to 2 loops and not expandable with dual loop cards.

The NF3002 panels can be networked in a ID²net peer to peer network and it allows connection of mimic panels and repeaters (IDR6A) via a RS485 optional interface. The NF3002 panels support both the AP and the CLIP protocol.

This pre-mounted fire panel includes:
1 x 020-538-002 Basic Equipment Kit
1 x LK3000NL/FR Dutch/French Language Kit
1 x 020-648 3A Power Supply Unit Kit
1 x 020-472-009 Standard Back Box Kit
1 x 020-480-009 Main Cover Kit

Options:

Please replace “xx” in the part n° by the code for the needed language:
NL = Dutch; FR = French; UK = English; GE = German

Specifications
- Power supply: 3A
- Battery space: 2 x 12Ah/12V batteries
- Color: RAL7021
- Dimensions (WxHxD): 500 mm x 400 mm x 140 mm

CPD number: 0786-CPD-20878; VDS number: S294034

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Pearl Intelligent Panels

The Pearl fire alarm control panel from Notifier by Honeywell is a robust and easy to use networkable 1 or 2 loop panel. It exploits Notifier’s class leading Opal digital protocol to maximise the speed and efficiency of fire detection and alarm. The large display with its intuitive interface and menu driven features allows quick and easy operation of the system. Coupled with more power and devices on the loop than other panels in its class, the simple design will allow for trouble-free first fix installation. The Pearl panel is supported by an integrated tools suite to enhance and simplify the system management.

BOSEC & VDS system approvals in process. ENS4 & CPD approved.

Specifications

- **Power supply:** 3 A
- **Battery space:** Min. 2 x 12Ah; max. 2 x 38Ah/12V (when using PRL-BOX)
- **Aux DC output:** 500mA max.
- **Dimensions (WxHxD):** 435 mm x 355 mm x 145 mm
- **Weight:** 8kg without batteries; 12kg with 12Ah batteries (standard battery size)
- **Construction:** ABS UL94-H40 plastic front cover and main enclosure
- **Mounting holes:** 4 (on first fix bracket)
- **Cable entry holes (20mm):** 20 (op), 2 (bottom)
- **External connections:** Plug-in screw terminals 0.5mm² to 2.5mm² (14-22AWG)
- **Max. loop current:** 750mA per loop
- **Max. loop length:** 3500m (screened cable; usable length may be less depending on loop loading)
- **Max. number of detectors:** 159/loop
- **Max. number of modules:** 159/loop
- **Operating temperature:** 0°C to +40°C
- **Relative humidity:** 5% to 95% (non-condensing)
- **IP rating:** IP30 (EN60529)

**CPD number:** 0832-CPD-1775

PRL-BNL-1

Pearl 1 loop panel

PRL-BNL

Pearl 2 loop panel

Pearl accessories

**PRL-P2P**

ID²net network card for Pearl

Disables the standard RS485 output.

**PRL-COM**

RS232 & RS485 communication interface for third party equipment

Required for RS485 communication when the PRL-P2P is installed.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

Intelligent Fixed Dual Loop Panels

PRL-VDS

Extra module for UE drive, EN54-13 sounders (availability will be announced)

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)

PRL-BOX

Extended box to receive a complete Pearl panel

Allows 38Ah batteries to be fitted.

Specifications

• Dimensions (WxHxD): 435 mm x 710 mm x 235 mm

PRL-FM

Flush-mount dress ring (incl. 19” rack kit)

Specifications

• Dimensions (WxH): 518 mm x 437 mm

PRL-RM19

19” rack mount kit

The PRL-RM19 enables the Pearl to be mounted in a 19 inch rack.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
### Loop splitter card

*Availability will be announced*

The Loop Splitter enables a fire control panel analogue addressable detection loop to be sub-divided into one of the following:
- 4 sub-loops (parallel or serial)
- 8 open lines (spurs)

The maximum numbers of devices supported for either option above is the same as for a single main fire detection loop that the Loop Splitter is connected to. As the Loop Splitter has been designed to comply with the requirements of the Belgian S21-100 Installation Standard, a short circuit on a sub-loop/open line must not allow the loss of more than 32 addressable devices; each sub-loop/open line is monitored for short-circuit conditions and isolates the loop until the fault is removed. The Loop Splitter is loop powered and requires no external power supply to drive any of the output loop configurations.

### Loop splitter box

*Availability will be announced*

The Loop Splitter Extension Enclosure is designed to be installed immediately above the panel backbox. Sufficient knockouts are provided on the top and bottom faces to allow for the routing of all inter-cabling (the supplied grommets must be used for these knockouts).

### PRL-IDR6A

**IDR6-A active repeater for Pearl panels**

Active repeater, displays all alarm and fault messages on the LCD. Includes function pushbuttons as mute buzzer, accept, evacuate, resound sounders and reset. 240 x 64 Graphic LCD and status indication leds. Includes text insert label kit (NL, FR).

**Specifications**

- Dimensions (W x H x D): 255 mm x 165 mm x 55 mm

### PRL-MIMIC

**IDR-CM compact mimic main board kit**

Compatible with Pearl panels.

16 outputs on board and up to 9 expansion boards (020-742) can be added (drive led’s or relays) giving max. of 160 outputs. 5 led outputs (Power ok, Test, Gen. Fault, Disablement & Fire) and 6 inputs (Key switch, Evacuate, Mute Buzzer, Silence sounders Lamp test & Reset). Requires ext. 24VDC Power source. For use with “local zones”.

### 020-742

**IDR-CME mimic expansion board kit**

Provides 16 LEDs or relays outputs. Up to 9 expansion boards can be daisy chained. Requires 020-741 IDR-CM Mimic main board. For use with “local zones”.

---

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

Intelligent 2-8 Loop Panels

The NF3000 intelligent fire panel offers a technically sophisticated range of facilities and functions. Modern styling and a variety of aesthetic options are sure to win over facility owners and architects. The NF3000 panels are designed in a modular fashion to allow a wide range of applications. You can design your panel following your needs or choose one of the Easy Order Kits. The Easy Order Kits will be delivered in separate items and are further expandable with optional cards as: dual loop cards, isolated RS485 module, isolated RS232 module, printer kit, etc. All panels are multi-language (NL, FR, GE, UK).

The NF3000 panel can be networked together as a true peer to peer network, extending the total capacity of the system to fit the largest applications. The NF3000 is designed in a modular fashion to allow for a wide range of applications, facilitating installation and servicing whilst making the NF3000 very easy to tailor to the requirements of the application. The large graphic LCD provides easy to read and understand messages complying with the EN54 standard for primary user interfaces.

System Modules

The NF3000 is a flexible modular control panel, built from various option modules. Choose the best combinations suited to the particular application.

The EN54-13 System certificate (B-9057-FD-878/c) contains the following items:

- **Intelligent fire panel**
  NF3000 + (ISOX-8) incl. PSU3A or PSU7A

- **Detectors**
  NFX(I)-OPT
  NFX-TF(I)X58
  NFX-TF(I)X78
  NFX(I)-TDIFF
  NFX(I)-SMT2
  NFX(I)-SMT3
  IRX-751CTEM
  FSL-751E

- **Bases**
  BS01AP
  BS24EFT-1
  BS24HTR
  BS24RTE

- **Beam detectors**
  NFXI-BEAM(-T)

- **Manual Call Points**
  M700KACI-xx-y
  M700WCP-R/I/Sx

- **Intelligent modules**
  M701, M701-240, M701-240-DIN
  M710, M720
  M710-CZR
  M700X
  M721
  CZ-6
  SC-6
  CMX-10RM
  MMX-10M
  MCX-55M
  NFX-MM1M

- **Sounders**
  CWSx-xx-yy
  NFXI-Bxx-yy
  NFXI-Wxx-yy

- **Aspiration systems**
  NFXI-ASD11
  NFXI-ASD12
  NFXI-ASD22
  8100E

Please replace “xx” in the part n° by the code for the needed language:
NLS - Dutch; FR = French; UK = English; GE = German

Bosec approved to EN54-13: Bosec number: B-9057-FD-878/c
CPD number: 0786-CPD-20878; VDS number: S294034

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
### NF3000-CAB-B1/xx

**NF3000 intelligent fire panel kit**

This unassembled kit includes:
- 1 x 020-538-002 Basic Equipment Kit with 2 loops
- 1 x LK3000NL/FR Dutch/French Language Kit
- 1 x 020-648 3A Power Supply Unit Kit
- 1 x 020-472-009 Standard Back Box Kit
- 1 x 020-480-009 Main Cover Kit


**Specifications**

- **Power supply:** 3A
- **Battery space:** 2x12Ah/12V batteries
- **Color:** RAL7021
- **Dimensions (WxHxD):** 500 mm x 400 mm x 140 mm

---

### NF3000-CAB-C2/xx

**NF3000 intelligent fire panel kit**

This unassembled kit includes:
- 1 x 020-538-002 Basic Equipment Kit with 2 loops
- 1 x LK3000NL/FR Dutch/French Language Kit
- 1 x 020-648 3A Power Supply Unit Kit
- 1 x 020-474-009 Extended Deep Back Box Kit
- 1 x 020-480-009 Main Cover Kit
- 1 x 020-481-009 Extension Cover Kit
- 1 x 020-485-009 Extension Cover Blanking Plate Kit


**Specifications**

- **Power supply:** 3A
- **Battery space:** 2x38Ah/12V batteries
- **Color:** RAL7021
- **Dimensions (WxHxD):** 500 mm x 620 mm x 235 mm

---

### NF3000-CAB-D2/xx

**NF3000 intelligent fire panel kit**

This unassembled kit includes:
- 1 x 020-538-002 Basic Equipment Kit with 2 loops
- 1 x LK3000NL/FR Dutch/French Language Kit
- 1 x 020-480-009 Main Cover Kit
- 2 x 020-481-009 Extension Cover Kit
- 2 x 020-485-009 Extension Cover Blanking Plate Kit
- 1 x 020-476-009 Double Extended Deep Back Box Kit
- 1 x PSU-7A Power supply 7A and Dual Transmission Path Board


**Specifications**

- **Power supply:** 7A
- **Battery space:** 2x38Ah/12V batteries
- **Color:** RAL7021
- **Dimensions (WxHxD):** 500 mm x 840 mm x 235 mm
### Intelligent Systems

#### Intelligent 2-8 Loop Panels

**020-538-002/xx  
NF3000 basic equipment kit**

![Image](image_url)

Includes the main chassis assembly, with hinged display, base PCB containing 2 loops and microprocessor PCB. 240 x 64 pixels LCD display. Slide-in labels included.

---

#### Modular & Peripheral Devices

**PSU-3A  
NF50/NF3000 3A power supply unit kit**

![Image](image_url)

Switched mode power supply (020-648).

**Specifications**

- **Weight**: 1.3kg

**PSU-7A  
NF3000 universal power supply kit**

![Image](image_url)

Includes:

- 7A Power supply (020-579)
- Dual Transmission Path Board Kit (020-543)

The 7A Power supply can be mounted behind the basic equipment if the deep back box is used.

**Specifications**

- **Weight**: 3kg

---

**020-548  
NF3000 PSU status indication kit**

![Image](image_url)

Includes a complete assembly with interconnection cables. Gives status indications of the PSU when it is externally mounted.

---

**020-541-009  
78 Ah remote battery/charger enclosure kit**

![Image](image_url)

Floor mounted back box with extra depth for external mounting of PSU-7A (not included). Will hold batteries up to 78 Ah.

**Specifications**

- **Dimensions (WxHxD)**: 680 mm x 510 mm x 240,5 mm

---

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
# Modular & Peripheral Devices

## NF3000 dual loop module kit (Lib card)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-588</td>
<td>Includes PCB for additional 2 loops, and plug in cable connector. Max. three modules per panel. A maximum of 512 input devices per panel may be connected using the standard LIBs (limitation of the EN54 standard).</td>
</tr>
</tbody>
</table>

## NF3000 intelligent dual loop board kit (E-Lib card)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-549</td>
<td>Includes PCB for additional 2 loops with on board standby microprocessor, and plug in cable connector. Max. three modules per panel. Only required where total number of input devices controlled by panel main microprocessor exceeds the EN54 limitation of 512. E-LIB may be mixed with standard LIBs in the same panel.</td>
</tr>
</tbody>
</table>

## ISOX-8

### 8-Way loop splitter board

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOX-8</td>
<td>Transforms 1 intelligent loop into 4 closed and isolated sub-loops. 3 types of configurations possible - requires external 24VDC. Compatible with all intelligent Notifier panels.</td>
</tr>
</tbody>
</table>

### Specifications

- **Dimensions (W x H x D):** 155 mm x 115 mm x 70 mm

## NF3000 extension chassis kit, zones 1-64

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-559-001</td>
<td>Includes extension chassis with LED display board for zones 1 to 64 to indicate fire and fault /disablement / test. Will also accept integral printer.</td>
</tr>
</tbody>
</table>

## NF3000 extension chassis kit, zones 65-128

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-559-002</td>
<td>Extension chassis with LED display board. Zones 65-128. Accepts also integral printer (optional 020-644-009). Not compatible with SMC panels. Item available on request only. Please check the last price list for Lead time information.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>020-612</td>
<td><strong>NF3000 256 zone display module extension kit</strong>&lt;br&gt;Extension chassis with LED display board. Zones 1-256.&lt;br&gt;Requires double extension space &amp; special cover 020-621-009.</td>
</tr>
<tr>
<td>020-708-009</td>
<td><strong>NF3000 ext. chassis with printer module kit</strong>&lt;br&gt;Extension chassis with integral printer module fitted.&lt;br&gt;Uses the Panel RS232 COM Port.</td>
</tr>
<tr>
<td>020-644-009</td>
<td><strong>NF series printer kit</strong>&lt;br&gt;Includes thermal printer with power supply unit and roll of thermal paper. No RS232 interface module is required.&lt;br&gt;Compatible with NF50/CAB-B1, NF50/CAB-C2 and NF3000 panels using extension chassis kit 020-559-001, 020-559-002.&lt;br&gt;Uses 1 panel COMMS port.</td>
</tr>
<tr>
<td>020-820</td>
<td><strong>Replacement paper roll for printer</strong></td>
</tr>
<tr>
<td>020-480-009</td>
<td><strong>Main cover kit</strong>&lt;br&gt;Includes plastic moulding finished in RAL7021, 4 hexagonal socket-headed M6 screws &amp; Notifier label.&lt;br&gt;Moulding adds 21 mm to overall depth of back box.</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
020-481-009 Extension cover kit

Includes plastic moulding finished in RAL7021, printer slot & 2 hexagonal socket-headed M6 screws. Moulding adds 21 mm to overall depth of back box.

020-621-009 NF3000 256 zone display extension cover kit

Includes moulding, hinges for user interface door, push clip fasteners and printer slot covering label. Finished in RAL7021. Moulding adds 21 mm to overall depth of back box. (To cover 256 zone display module 020-612).

Item available on request only. Please check the last price list for Lead time information.

020-485-009 Extension cover blanking plate kit

Metal blanking plate to cover hole in 020-481-009 if no extension chassis is required. May be used for customisation such as mounting of plant switches. Finished in RAL7021 extra fine texture.

020-472-009 Standard back box Cab-B1

Basic back box kit coated to RAL 7021 extra fine texture. Includes power in connectors. Will hold batteries up to 12Ah. Suitable for use with single extension.

Specifications

- Weight: 4kg
- Dimensions (WxHxD): 500 mm x 400 mm x 122 mm

020-473-009 Extended back box Cab-C1

Single "extended height" back box powder coated to RAL7021 extra fine texture. Includes power in connectors. Will hold batteries up to 17Ah. Suitable for use with single extension.

Specifications

- Weight: 8kg
- Dimensions (WxHxD): 500 mm x 620 mm x 122 mm
For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)

### Modular & Peripheral Devices

#### 020-474-009
**Extended deep back box Cab-C2**

Single "extended height" back box with extra depth for additional battery space, powder coated to RAL7021 extra fine texture. Includes power in connectors. Will hold batteries up to 38Ah. Suitable for use with single extension.

**Specifications**
- Dimensions (WxHxD): 500 mm x 620 mm x 220 mm

#### 020-475-009
**Double extended back box Cab-D1**

Double "extended height" back box powder coated to RAL7021 extra fine texture. Includes power in connectors. Will hold batteries up to 17Ah. Suitable for use with dual extension.

Item available on request only. Please check the last price list for Lead time information.

**Specifications**
- Dimensions (WxHxD): 500 mm x 840 mm x 122 mm

#### 020-476-009
**Double extended deep back box Cab-D2**

Double "extended height" back box with extra depth for additional battery space, powder coated to RAL7021 extra fine texture. Includes power in connectors. Will hold batteries up to 38Ah with chassis fitted. Suitable for use with dual extension.

**Specifications**
- Dimensions (WxHxD): 500 mm x 840 mm x 220 mm
020-508-009  Standard extension back box kit

Basic back box powder coated to RAL7021 extra fine texture. Includes power in connectors. Will hold batteries up to 17Ah (requires cover 020-481-009 + blanking plate 020-485-009).

Specifications
- Weight: 2.7kg
- Dimensions (WxHxD): 500 mm x 220 mm x 122 mm

020-509-009  Deep extension back box kit

Deep back box with extra depth for additional battery space. Powder coated to RAL7021 extra fine texture. Includes power in connectors. Will hold batteries up to 38Ah. (requires cover 020-481-009 + blanking plate 020-485-009).

Specifications
- Weight: 4kg
- Dimensions (WxHxD): 500 mm x 220 mm x 220 mm

020-599-009  Flush mounting bezel for NF30/50 CAB-A1

Semi-flush mount bezel for standard height back box. Finished in RAL7021 extra fine texture.

Specifications
- Dimensions (H x W): 437 mm x 453 mm

020-038-009  Flush mounting bezel for NF3000 CAB-B1

Specifications
- Dimensions (H x W): 467 mm x 567 mm
020-039-009  Flush mounting bezel for NF3000 CAB-C1 or CAB-C2

Semi-flush mount bezel for extended height back box. Finished in RAL7021 extra fine texture.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Dimensions (H x W): 687 mm x 567 mm</td>
</tr>
</tbody>
</table>

020-040-009  Flush mounting bezel for NF3000 CAB-D1 or CAB-D2

Semi-flush mount bezel for double extended height back box. Finished in RAL7021 extra fine texture.

Item available on request only. Please check the last price list for Lead time information.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Dimensions (H x W): 907 mm x 567 mm</td>
</tr>
</tbody>
</table>

020-600-009  Flush mounting bezel for IDR repeaters

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Dimensions (H x W x D): 218 mm x 307 mm x 60 mm</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
020-576  Main cover kit, stainless steel

Item available on request only. Please check the last price list for Lead time information.

020-577  Extension cover kit, stainless steel with printer slot

To be used with 1-64 zone LED display module.

Item available on request only. Please check the last price list for Lead time information.

020-621  256 zone display module extension cover kit

Item available on request only. Please check the last price list for Lead time information.

020-584  Blank extension cover kit, stainless steel

Item available on request only. Please check the last price list for Lead time information.

020-585  Bezel kit, standard back box stainless steel

Item available on request only. Please check the last price list for Lead time information.
020-586  Bezel kit, extended back box stainless steel

Item available on request only. Please check the last price list for Lead time information.

020-587  Bezel kit, double extended back box stainless steel

Item available on request only. Please check the last price list for Lead time information.

002-466-002  IDR-6A active repeater stainless steel

This kit includes the complete repeater unit with all assembled electronics, Liquid Crystal Display (LCD), fascia membrane, text insert label kit, manual and the stainless steel flush mounting bezel.

Item available on request only. Please check the last price list for Lead time information.

020-590  6U 19” rack mounting assembly for basic equipment kit (adapter plate and cover)

Compatible with basic equipment kit 020-538-002.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

Modular & Peripheral Devices

020-591
6U 19” rack mounting assembly for standard extension chassis & printer (adapter plate and cover)

Compatible with extension chassis 020-559 or 020-708-009.

Item available on request only. Please check the last price list for Lead time information.

020-592
6U 19” rack mounting assembly for 256 zone led extension chassis (adapter plate and cover)

Compatible with 256 zone display module 020-612.

Item available on request only. Please check the last price list for Lead time information.

020-593
6U 19” rack blank cover with printer provision (adapter plate and cover)

Compatible with printer kit 020-644-009.

Item available on request only. Please check the last price list for Lead time information.

020-594
6U 19” rack blank cover
020-595 6U 19” rack mounting assembly for 7Amp PSU

Compatible with 7A power supply 020-579.

020-598 3U 19” rack blank cover

Item available on request only. Please check the last price list for Lead time information.

020-596 3U 19” rack blank cover with mains/gland termination

Item available on request only. Please check the last price list for Lead time information.

020-597 3U 19” rack mounting assembly for mimic driver kit

Item available on request only. Please check the last price list for Lead time information.

020-606 6U 19” rack blank cover with mains/gland termination

Item available on request only. Please check the last price list for Lead time information.

020-478 Isolated RS232 module kit for NF3000

Includes PCB for isolated RS232 port for OEM interface, 80 column printer etc. Uses 1 panel COM port.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

Modular & Peripheral Devices

020-479  Isolated RS485 module kit for NF SERIES (except NF30/50-CAB-A1)
Includes PCB for isolated RS485 port for peripherals such as repeaters and mimic boards. Uses 1 panel COM port.

020-553  RS485 interface module pcb kit For NF30-50/CAB-A1

002-451-002  IDR-2P passive repeater for NF30/NF50 panels
Passive repeater, displays all alarm and fault messages on the display. Includes status indication leds and text insert label kit (NL, FR).

Specifications
- Dimensions (W x H x D): 255 mm x 165 mm x 55 mm

002-450-002  IDR-2A active repeater for NF30/NF50 panels
Active repeater, displays all alarm and fault messages on the LCD. Includes function pushbuttons as mute buzzer, accept, evacuate, resound sounders and reset. Includes status indication leds and text insert label kit.

Specifications
- Dimensions (W x H x D): 255 mm x 165 mm x 55 mm

002-452-002  IDR6-A active repeater for NF3000 panels
Active repeater, displays all alarm and fault messages on the LCD. Includes function pushbuttons as mute buzzer, accept, evacuate, resound sounders and reset. 240 x 64 Graphic LCD and status indication leds. Includes text insert label kit (NL, FR).

Specifications
- Dimensions (W x H x D): 255 mm x 165 mm x 55 mm

020-741  IDR-CM compact mimic main board kit
Compatible with NF30/50 and NF3000 Panels. 16 outputs on board and up to 9 expansion boards (020-742) can be added (drive led's or relays), giving max. of 160 outputs. 5 led outputs (Power ok, Test, Gen. Fault, Disablement & Fire) and 6 inputs (Key switch, Evacuate, Mute Buzzer, Silence sounders Lamp test & Reset). Requires ext. 24VDC Power source. For use with "local zones".

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
### Modular & Peripheral Devices

#### 020-742 IDR-CME mimic expansion board kit

Provides 16 LEDs or relays outputs. Up to 9 expansion boards can be daisy chained. Requires 020-741 IDR-CM Mimic main board. For use with "local zones".

#### 020-573 IDR-M mimic control PCA kit

Compatible with NF30/50 and NF3000 Panels. Mimic control PCA Kit. Supports up to 8 Mimic Drivers. Requires ext. 24VDC Power source and min. one 020-574. Use the mimic driver configuration tool kit (020-613). For use with "network zones".

#### 020-574 IDR-MD mimic driver and terminal PCA kit

Provides 64 LEDs or relays outputs and 8 inputs. Up to 8 Mimic Drivers can be daisy chained. Requires Mimic Control PCA Kit and external 24VDC. Power source. For use with "network zones".

#### TG-GSM KIT NF30/50 Gsm communication kit

Allow events (Alarm, Fault, ..) to be sent over the GSM telephone network. Up to five phone numbers can be entered. Requires GSM coverage, 24VDC, RS232 serial port and SIM Card.

- Item available on request only. Please check the last price list for Lead time information.
- Please note that a specific training is required for the installation of this item.

#### MINI-VISTA Touchscreen repeater for NF50/3000 (availability will be announced)

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
**NEW**

**TG-IP-1**  
**RS232 / TCP converter**  
RS232 serial port converter to IP protocol for the Mini-VISTA.

Item available on request only. Please check the last price list for lead time information.

**ITS-BOX**  
**RS232-TCP/IP device converter**  
ITS-BOX provides a hassle-free and inexpensive way to add Ethernet connectivity to virtually any device with a serial interface. ITS-BOX creates a fully transparent serial connection to existing PC-based software applications, making it possible to remotely connect to equipment already in the field as if it were connected to a local PC serial port. Additionally, ITS-BOX is equipped with a built-in web server that allows users the flexibility to access, control, and configure equipment using a standard web browser.
Espa Interfaces

NF3K-OPTO-ESPA

- Used to connect a NF50, NF2000, NF3000 or Pearl fire panel on a pager system using a serial communication
- Uses the standard ESPA 4.4.4 “Third Party Protocol”, version 11 in “Full Duplex” mode
- Windows Configuration Tool
- Freely programming on site using the LAN ports or the serial port COM3
- Onboard Intel Atom E620 microprocessor
- Includes 3 serial RS232 communication ports
- Includes 3 2.0 USB ports for the backup and download of the configuration
- LAN ports with dynamic and static IP address
- Allows the connection of a control display
- Filtering per group of event: Fire, Technical alarm, Pre alarm, Fault, Auxiliary
- Event filtering per zone
- The message sent can include: panel number, loop number, device address, zone number (conventional or network), device reference, zone and/or device description

The NF3K-OPTO-ESPA includes:

- Mini PC Fire panel
- HLS-OPTO-RS232 (RS232 Optical Isolation Transceiver)

Specifications

- Operating voltage range: 12VDC to 24VDC
- Power consumption: 420 mA
- RS232 serial ports:
  - COM 1 Analog fire detection panel, NF range
  - COM 2 Pager system ESPA 4.4.4; COM 3 Activation new configuration/Third Party Protocol “Full Duplex”
- Dimensions (H x W x L): 140 mm x 59 mm x 167 mm
- Operating temperature: -5°C to +55°C
- Relative humidity: 10-93% (non condensing)

HLS-OPTO-RS232

RS232 optical isolation transceiver

Required when connection the NF3K-OPTO-ESPA to a NF50 panel.

Item available on request only. Please check the last price list for Lead time information.

9102.1322

Light universal Espa444 interface for the NF30/50 and NF3000

This interface has two RS232 communication ports to connect the NF30/50 and NF3000 Notifier fire panel to a Pager system using the Standard Espa444 protocol. Both RS232 communication are constantly monitored.

This interface is delivered with an USB programming cable and a Configuration software.

Specifications

- Operating voltage range: 9V to 30VDC
- Power consumption: 40 mA at 24VDC
- Dimensions: 94 mm x 180 mm x 57 mm
**IBOX-NBF-NID3000**

NF30/50/3000 Modbus gateway (stand alone panel)

This gateway allows to integrate the Notifier panels through MODBUS protocol. The gateway acts as a MODBUS slave device. Commands toward the panel are allowed (conventional zones). Immediate response, operation based on events. DIN rail, wall or desktop mounting. Power from 9 to 30VDC (Power supply included).

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS-OPC-NID3000-1C</td>
<td>NF3000 Opc server (stand alone panel)</td>
</tr>
<tr>
<td>IS-OPC-NID3000-2C</td>
<td>NF3000 Opc server (2 panels)</td>
</tr>
<tr>
<td>IS-OPC-NID3000-5C</td>
<td>NF3000 Opc server (5 panels)</td>
</tr>
<tr>
<td>IS-OPC-NID3000-16C</td>
<td>NF3000 Opc server (16 panels)</td>
</tr>
<tr>
<td>IS-OPC-NID3000-32C</td>
<td>NF3000 Opc server (32 panels)</td>
</tr>
<tr>
<td>IS-OPC-NID3000-32C</td>
<td>NF3000 Opc server (32 panels)</td>
</tr>
<tr>
<td>IS-OPC-NID3000-64C</td>
<td>NF3000 Opc server (64 panels)</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-2C</td>
<td>NF30/50/3000 Modbus gateway (2 panels)</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-5C</td>
<td>NF30/50/3000 Modbus gateway (5 panels)</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-16C</td>
<td>NF30/50/3000 Modbus gateway (16 panels)</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-32C</td>
<td>NF30/50/3000 Modbus gateway (32 panels)</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-64C</td>
<td>NF30/50/3000 Modbus gateway (64 panels)</td>
</tr>
</tbody>
</table>
ID²net Peer to Peer Network

The ID²net Network is designed to be installed in the Notifier NF3000 intelligent Fire Alarm Panel – a modular 2 to 8 loop panel with a capacity of 198 intelligent devices per loop. A full range of intelligent sensors, advanced detection products, input and output devices, repeaters, mimic drivers and other peripherals is available to complement the NF3000.

The ID²net works without adding task to the attached fire panels and peripherals. In fact, since the panels are relieved of all networking responsibilities, they perform faster and become 100% fully dedicated to advanced alarm detection and alarm processing.

Each network gateway module on the ID²net has a powerful on-board microprocessor responsible for network integrity, including fault detection, message integrity, priority messaging, supervision, confirmed delivery messaging, high speed transfer and diagnostics.

The core network communications mechanism of ID²net is based on ARCNET® technology, which provides a proprietary Invitation-to-Transmit (ITT) or ‘token-passing’, non-collision based protocol. Multitoken passing ensures that all nodes have the same status on the network and all may communicate virtually simultaneously. There is no need for important messages to be held back; and once a message is on the network the ID²net ensures it is delivered. Although a single node may temporarily have sole authority to transmit between node pairs, no one node is allowed to functional description dominate the network. Message length is also limited, to prevent clutter and to facilitate high speed transmission.

ID²NET (NGM) network gateway module (P2P)

For use with ID²NET. 1 NGM. Required per NF3000 intelligent fire alarm panel. Requires Eprom version 4.xx.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
020-643  Dual port fibre optic interface for multi mode fibre

The fibre optic interface PCB plugs directly into the NGM via a ribbon cable. Two ports are available for fibre optic communication (left & right channel).

TCF-142-S-ST  Single port fibre optic interface for single mode fibre

TCF-142-S-ST is used to connect repeaters over long distance on fibre optic cables. Requires a RS485 interface.

Specifications

- Operating temperature: -40°C to +75°C
- Dimensions: 100 mm x 22 mm x 67 mm
- Storage Temperature: -40 to 85°C (-40 to 185°F)
- Relative humidity: 5 to 95% (non-condensing)
- Input Power Voltage: 12 to 48 VDC
- Fiber communication distance: 20km

TCF-142-M-ST  Single port fibre optic interface for multi mode fibre

TCF-142-M-ST is used to connect repeaters over long distance on fibre optic cables. Requires a RS485 interface.

Specifications

- Operating temperature: -40°C to +75°C
- Dimensions: 100 mm x 22 mm x 67 mm
- Storage Temperature: -40 to 85°C (-40 to 185°F)
- Relative humidity: 5 to 95% (non-condensing)
- Input Power Voltage: 12 to 48 VDC
- Fiber communication distance: 2km

002-467  Network gateway unit (NGU)

NF3000 Peer to Peer Network Gateway with enclosure, network card, DC/DC converter.

Options (not included):
- PSU-3A power supply unit
- 020-643 Dual port fibre optic interface
- Batteries (2 x 12Ah)
The OPAL detectors have two integral tri-colour LEDs that provide 360° local visual indication of the device status. The LEDs are programmable with static or blinking red, amber and green status indications available. All OPAL detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible with existing devices.

### Specifications
- **Max Wire Gauge for Terminals:** 2.5mm²
- **Colour:** Pure white
- **Material:** PC/ABS
- **Operating Voltage Range:** 15 to 28.5VDC
- **Isolation Current:** 15mA at 24VDC
- **Maximum Continuous Current:** 1A (Switch closed)
- **Temperature Range:** -30°C to +70°C
- **Relative Humidity:** 10 to 93% (non-condensing)
- **Approved to:** EN54

**CPD number:** 0786-CPD-20640; **VDS number:** G209003

### Pure white

**NFXi-OPT**

The NFxi-OPT photoelectric smoke detector has a completely new detection chamber design, the result of many years of research and development. This delivers improved responsiveness, reduced sensitivity changes caused by settling dust and reduced false alarms resulting from insect ingress and other debris. The plug-in unit uses sophisticated processing circuitry that incorporates smoothing filters to help eliminate transient environmental noise conditions that can be the cause of unwanted alarms. The devices are managed by embedded software running complex algorithms that further improve resilience to false alarms and improve detection speed.

### Specifications
- **Weight:** 97g (base incl)
- **Dimensions (Ø x h):** 102 mm x 43 mm in base B501AP
- **Approved to:** EN54-17, EN54-5

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems).
Intelligent Systems

NFXI-TDIFF
Thermal OPAL detector - rate of rise, with isolator

The NFXI-TDIFF uses the same thermistor and microprocessor technology to provide an alarm when the rate of rise in temperature exceeds 10°C/minute (typical) or if the temperature exceeds a threshold of 58°C (Response Class A1R). With the implementation of the Advanced Protocol, any model can be software configured to be either a fixed 58°C, a fixed 78°C unit or a 58°C with rate of rise device. For backwards compatibility and approval continuity, three separate versions continue to be available as separate part numbers.

Specifications
- Weight: 88g (without base)
- Dimensions (Ø x h): 102 mm x 61 mm in base B501AP
- Approved to: EN54-5, Class A1R, EN54-17

CPD number: 0786-CPD-20643; VDS number: G209006

NFXI-TFIX58
Thermal OPAL detector - 58°C fix, with isolator

The NFXI-TFIX58 is fixed temperature intelligent sensors employing low mass thermistors and microprocessor technology for fast response and linear temperature sensing. Their linear response allows these sensors to be used to signal temperatures over the range of 58°C (Class A1S).

Specifications
- Weight: 88g (without base)
- Dimensions (Ø x h): 102 mm x 61 mm in base B501AP
- Approved to: EN54-5, Class A1S, EN54-17

CPD number: 0786-CPD-20641; VDS number: G209004

NFXI-TFIX78
Thermal OPAL detector - 78°C fix, with isolator

The NFXI-TFIX78 is fixed temperature intelligent sensors employing low mass thermistors and microprocessor technology for fast response and linear temperature sensing. Their linear response allows these sensors to be used to signal temperatures of 78°C (Class BS).

Specifications
- Weight: 88g (without base)
- Dimensions (Ø x h): 102 mm x 61 mm in base B501AP
- Approved to: EN54-5, Class BS, EN54-17

CPD number: 0786-CPD-20642; VDS number: G209005
The multi-criteria multi-sensor NFXI-SMT2 Photo Thermal detector uses thermal assistance to the core photoelectric smoke detector to give enhanced false alarm immunity and faster response to a wide range of incipient fires. The plug-in unit combines two separate sensing elements that are managed by embedded software to act as a single unit. The NFXI-SMT2 conforms to EN54-5, a 58°C fixed temperature and rate of rise thermal assistance conforming to EN54-7. The thermal detection function combines thermistor technology with a software corrected linear temperature response.

**Specifications**

- **Weight:** 97g (base inc)
- **Dimensions (Ø x h):** 102 mm x 43 mm in base B501AP
- **Approved to:** EN54-7, EN54-5, EN54-17

**CPD number:** 0786-CPD-20639; **VDS number:** G209002

The NFXI-SMT3 multi-criteria, multi-sensor Photo Thermal Infra Red (SMART3) detector is the environmentally friendly alternative to the ionisation detector, a technology that is now over sixty years old. The SMART3 offers comparable speed of response to the ionisation technology for a fast flaming fire and is less susceptible to false alarms. It can be deployed with confidence in locations where the main risk is from fast-developing flaming fires. SMART3 moves the goalposts in the fight against false alarms in the core detector space by delivering enhanced false alarm immunity. In addition to being an effective alternative to ionisation units, SMART3 offers better performance over the alternative technologies of dual angle or dual wavelength optical detectors and photo-thermal detectors.

**Specifications**

- **Weight:** 102g (base inc)
- **Dimensions (Ø x h):** 102 mm x 63 mm in base B501AP
- **Approved to:** EN54-7, EN54-5, EN54-17

**CPD number:** 0786-CPD-20638; **VDS number:** G209001
Intelligent OPAL Detectors

Detector Series for Retrofit & Black Ceilings

The OPAL detectors have two integral tri-colour LEDs that provide 360° local visual indication of the device status. The LEDs are programmable with static or blinking red, amber and green status indications available. All OPAL detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible with existing devices.

Please note that ivory and black detectors are non-standard items. Please check the price list for lead time.

- New mechanical platform with revolutionary chamber offering:
  - Improved false alarm immunity
  - Improved detection across multiple fire types
  - Improved resilience to false alarms through dust reduced risk of false alarms through insects
- Includes advanced protocol
- Available without short circuit isolator (ivory version only).
- Tri colour LED offering red, green and amber colour
- Rotary decade address switches
- Ivory colour to complement with retrofit installations using ivory bases and detectors.
- 100% mechanical and electrical backwards compatibility

 Specifications

- Max Wire Gauge for Terminals: 2.5mm²
- Material: PC/ABS
- Operating voltage range: 15 to 28.5VDC
- Isolation Current: 15mA at 24VDC
- Maximum continuous current: 1A (Switch closed)
- Temperature range: -30°C to +70°C
- Relative humidity: 10 to 93% (non-condensing)
- Approved to: EN54

Ivory

NFX-OPT-IV Optical OPAL detector

CPD number: 0786-CPD-20646; VDS number: G209009

NFX-TFIX58-IV Thermal OPAL detector - 58°C fix

CPD number: 0786-CPD-20647; VDS number: G209010

NFX-TFIX78-IV Thermal OPAL detector - 78°C fix

CPD number: 0786-CPD-20648; VDS number: G209011

NFX-TDIFF-IV Thermal OPAL detector - rate of rise (58°C-10°C/min)

CPD number: 0786-CPD-20649; VDS number: G209012

NFX-SMT2-IV SMART2 - OPAL multi-detector (O/T)

CPD number: 0786-CPD-20645; VDS number: G209008

NFX-SMT3-IV SMART3 - OPAL multi-detector (O/T/IR)

CPD number: 0786-CPD-20644; VDS number: G209007

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
The SMART4 combines 4 separate sensing elements to act as a single unit. CO sensing (using EC technology) for monitoring CO products from a smouldering fire, IR sensing for measuring ambient light levels and flame signatures, optical smoke detection and heat detection.

The integration of continual monitoring for all four major elements of a fire has enabled us to create a detector that responds far more quickly to an actual fire and has the highest immunity to nuisances. The operating philosophy behind SMART4 was to configure it so that it normally operates at a high immunity level, changing to become very sensitive to fires when fire characteristics are sensed. In this way transient nuisances are monitored and ignored, reducing the false alarm rate.

SMART4 is managed by on-board intelligence running some very advanced algorithms, which dynamically adjust the detection profile of the device in response to the input from the sensors, enabling it to be re-characterised on the fly as the ambient conditions change. Based upon the sensor signals, the program is dynamically changing sensor thresholds, changing sensor gain, changing time delays, changing combination, changing sampling rates, changing averaging rates and, if any sensor fails, changing sensitivity of the remaining sensors as well as indicating a fault condition.

The IR light sensor helps the detector recognise specific situations such as welding and makes adjustments rapidly in order to further reduce the potential for false alarms caused by nuisances.

### Specifications

- **Height:** 66 mm installed in B501 base
- **Diameter:** 102 mm installed in B501 base
- **Weight:** 176g (inc base)
- **Max Wire Gauge for Terminals:** 2.5mm²
- **Material:** BayblendFR110
- **Temperature range:** -20°C to +55°C
- **Relative humidity:** 15 to 90% (non-condensing)
- **CO limits:** 0-500ppm

**CPD number:** 0832-CPD-0527; **VDS number:** G207056

---

**IRX-751CTEM-WH**
**SMART 4 - Intelligent multi criteria detector - pure white**

**IRX-751CTEM-IV**
**SMART 4 - Intelligent multi criteria detector - ivory**

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
The FSL-751E is an intelligent, low profile high sensitivity smoke sensor designed for use with Notifier intelligent fire alarm control panels. The unique design of this sensor uses an extremely bright, tightly focused laser diode, with special lens and mirror optics, combined with enhanced AWACS™ algorithms in the Notifier fire control panel, to achieve a signal-to-noise ratio allowing smoke detection sensitivity up to 50 times greater than traditional photoelectric technology. In addition, the light beam and algorithms, allow the system to differentiate between dust and smoke particles.

Using these algorithms, the VIEW™ system provides drift compensation, three levels of maintenance alert, selection of nine alarm levels and nine pre-alarm levels. The system includes a self-learn sensitivity adjustment to set the pre-alarm level just above the peak levels sensed over extended periods for each sensor’s actual environment. Multiple sensor algorithms permit the control equipment to consider readings from up to six sensors in an area to provide faster detection of incipient fires. The AWACS™ algorithm also includes the ability to add reference sensors, such that smoke particles in the incoming air supply to an area can be compensated for further reducing the possibility of unwanted alarm.

Using a point type intelligent sensor, the VIEW™ system inherently does not have transit times from sensing points to a detector, delaying the sensing of a fire condition and since it does not rely on a single sensor for the room, no dilution can occur. A point sensor also enables the control panel to provide the operator with a pinpoint description of where the fire is located rather than a room alarm.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>FSL-751E</th>
<th>FSL-751E-W</th>
<th>WCK-VIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height:</td>
<td>43mm</td>
<td>104mm</td>
<td></td>
</tr>
<tr>
<td>Diameter:</td>
<td>installed in B501AP base</td>
<td>installed in B501AP base</td>
<td></td>
</tr>
<tr>
<td>Weight:</td>
<td>102g (inc base)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating voltage range:</td>
<td>15 to 32VDC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range:</td>
<td>-10°C to +60°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative humidity:</td>
<td>10 to 93% (non-condensing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Alarm Current:</td>
<td>6.5 mA @ 24VDC (with LED enabled)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption:</td>
<td>230 mA @ 24 VDC (no comm.), 255 mA @ 24 VDC (one comm. every 5 sec. with LED enabled)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved to:</td>
<td>EN54-7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPD number:</td>
<td>0832-CPD-0194</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VDS number:</td>
<td>G203049</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FSL-751E
Intelligent high sensitive laser sensor - Ivory

FSL-751E-W
Intelligent high sensitive laser sensor - white cover included

WCK-VIEW
White cover for FSL-751E
# Intelligent Detector Accessories

**Pure white**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>B501AP</td>
<td>Standard mounting base</td>
<td>• Dimensions (Ø x h): 102 mm x 22.5 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Operating temperature range: -10°C to +60°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Relative humidity: 10% to 93% (non-condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Operating voltage: 15 to 32 VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Rugged industrial construction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Electronic free base allowing cabling to be tested for continuity prior to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the installation of the sensors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Compact stylish design</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Easy plug in the head of base</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Tamper proof feature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SEMS screws for easy wiring</td>
</tr>
</tbody>
</table>

**B524HTR-WH**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard base with heater, compatible with the</td>
<td>• Dimensions (Ø x h): 102 mm x 26 mm</td>
</tr>
<tr>
<td></td>
<td>NFXI series. Rises the temperature of the</td>
<td>• Operating temperature range: -10°C to +60°C</td>
</tr>
<tr>
<td></td>
<td>detector to avoid condensation in the detection</td>
<td>• Relative humidity: 10% to 93% (non-condensing)</td>
</tr>
<tr>
<td></td>
<td>room. Requires 24 VDC power supply.</td>
<td>• Operating voltage: 15 to 28.5 VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Standby Current: Max 100µA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Maximum cable size: 2.5mm²</td>
</tr>
</tbody>
</table>

**Ivory**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B501AP-IV</td>
<td>Standard mounting base, ivory</td>
</tr>
<tr>
<td>B524IEFT-1</td>
<td>Mounting base with FET isolator, ivory</td>
</tr>
<tr>
<td></td>
<td>CPD number: 0832-CPD-0925</td>
</tr>
<tr>
<td>B524HTR</td>
<td>Heated base, ivory</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

Intelligent Detector Accessories

Black

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B501AP-BK</td>
<td>Standard mounting base, black</td>
</tr>
<tr>
<td>B524IEFT-1B</td>
<td>Mounting base with fet isolator, black</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMK400AP</td>
<td>Recess mounting kit</td>
</tr>
<tr>
<td>SMK400EAP</td>
<td>Surface mounting kit</td>
</tr>
<tr>
<td>WB-1AP</td>
<td>Wet base shroud</td>
</tr>
<tr>
<td>IBS-LIDW</td>
<td>Base cover for B501AP &amp; ABS base sounders (pack of 10)</td>
</tr>
</tbody>
</table>

**RMK400AP**

For suspended and drywall ceilings. For use with B501AP base.

**Specifications**
- **Weight:** 100g
- **Diameter:**
  - Internal: 103 mm
  - External: 143.5 mm
- **Material:** PC/ABS Pure white

**SMK400EAP**

Provides for entry of surface wiring conduit. For use with standard B501AP base.

**Specifications**
- **Weight:** 55g
- **Dimensions (Ø x h):** 102 mm x 34 mm
- **Material:** PC/ABS Pure White

**WB-1AP**

Adapter base enclosure for humid environments. For use with standard B501AP base. Three mounting options are possible: surface mounting, cable mounting and pendant mounting.

**Specifications**
- **Weight:** 200g
- **Dimensions (Ø x h):** 110 mm x 69 mm
- **Material:** PC/ABS Pure white

**IBS-LIDW**

Base cover for B501AP & ABS base sounders (pack of 10)

Pack of 10 pieces.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Detector Accessories

**BA1AP**
AP base conduit adapter, white

Item available on request only. Please check the last price list for Lead time information.

**SFT2000**
Installation adaptor for suspended ceiling (pack of 10)

The mounting adapter is used for the quick and secure attachment of bases of the NFXI, SD800 and ECO detector series to suspended ceiling systems. It saves the usage of special hollow cavity fasteners, since the mounting screws of the bases are screwed directly into the slots of the mounting adapter. The mounting adapter offers additional advantages in the fixing of the cables, rigid/flexible cable inlays and threaded cable connections.

Pack of 10 pieces.

**Specifications**
- Material: ABS

Application examples for the fixing of the cables, rigid/flexible cable inlays and threaded cable connections:

Dimensions in mm:
**Intelligent Systems**

**Intelligent Detector Accessories**

### Ivory

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMK400AP-IV</td>
<td>Recess mounting kit</td>
</tr>
<tr>
<td>SMK400EAP-IV</td>
<td>Surface mounting kit</td>
</tr>
<tr>
<td>WB-1AP-IV</td>
<td>Wet base shroud</td>
</tr>
<tr>
<td>IBS-LIDDW</td>
<td>Base cover for B501AP-IV, B401 &amp; ABS base sounders (pack of 10)</td>
</tr>
</tbody>
</table>

**Pack of 10 pieces.**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA1AP-IV</td>
<td>AP base conduit adapter, ivory</td>
</tr>
</tbody>
</table>

**Item available on request only. Please check the last price list for Lead time information.**

### Remote Indicators

**IRK-2E LED remote indicator, white**

The remote indicator lamp has been designed for direct connection to all Notifier fire detectors. It provides a visual alarm indication of the room in which the detector is installed.

**Specifications**

- Dimensions (H x W x D): 80 mm x 80 mm x 25 mm
- IP rating: IP40
- Terminals: Screw
- Maximum wire section: 1.5mm²
- Operating temperature: -10°C to +70°C
- Voltage range: 2.5 to 30 VDC
- Maximum current: 15mA
- Weight: 40g
- Maximum cable size: 2.5mm²

**Note:** Supply voltage must not exceed 3.5 VDC without limiting resistor. Above this, a serial resistor must be provided with no less than 40 Ohm per Volt (usually inside the detector).

**Typical applications:**
- All rooms permanently locked (boiler rooms, computer rooms, cupboards,...)
- Health buildings
- Find faster alarm location.

**IRK-E-SI LED remote indicator, ivory**

Surface mounted on the supplied mounting plate. Led’s will not blink in normal mode on intelligent systems.

**Specifications**

- Dimensions (H x W x D): 86 mm x 86 mm x 36 mm
- IP rating: IP40
- Operating temperature: -10°C to +70°C
- Voltage range: 2.5 to 30 VDC
- Maximum current: 25mA
- Maximum cable size: 1.5mm²
Intelligent Duct Detectors

IRK-W-1224

Waterproof remote indicator

Led based technology. Surface mounted.
LED will blink in normal mode on intelligent systems.

Specifications

- IP rating: IP55
- Voltage range: 12-24VDC

InnovairFLEX™

DNRE

Duct detector housing

The DNRE Air Duct Smoke Detector uses photoelectric technology for the detection of smoke. This detection method, when combined with an efficient housing design, samples air passing through the duct and allows detection of a developing hazardous condition.
The DNRE provides a remote alarm output for use with auxiliary devices, such as the RA100Z remote LED annunciator, as well as remote test capability with the RTS151 or RTS151KEY Remote Test Stations.
Compatible with OPAL Series detectors.

To be ordered separately: Detector & DST-xx Inlet Sampling Tube.

Specifications

- Voltage supply: 24VDC
- Air velocity rating: from 1.5m/s to 20.3m/s
- Dimensions (W x H x D): 370 mm x 127 mm x 63.5 mm
- Weight: 820g
- Operating temperature: -20°C to +70°C
- Relative humidity: 0% to 95% (non-condensing)
- IP rating: IP40

Air Inlet Tubes for InnovairFLEX™

DNRE requires an inlet sampling tube as listed below.

Specifications

- Diameter: 18 mm
- Length: DST-1: 30 cm
  DST-1.5: 45.7 cm
  DST-3: 91.6 cm
  DST-5: 152 cm
  DST-10: 325.5 cm

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
DST-5  Inlet sampling tube (152 cm)
DST-10 Inlet sampling tube (325.5 cm)

**Accessories for InnovairFLEX™**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTS151</td>
<td>Remote test station</td>
<td>Proof remote station for DNRE and D2E.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24VDC external power supply is required, according to EN54-4.</td>
</tr>
<tr>
<td>RTS151KEY</td>
<td>Remote test station with key</td>
<td>Proof remote station for DNRE and D2E with key.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24VDC external power supply is required, according to EN54-4.</td>
</tr>
<tr>
<td>RA100Z</td>
<td>Remote annunciator</td>
<td>Remote indicator with LED for DNRE and D2E.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item available on request only. Please check the last price list for lead time information.</td>
</tr>
</tbody>
</table>
Intelligent Beam Detectors

Advanced Protocol Intelligent Beam Detectors - NFXI-BEAM(-T)

The NFXI-BEAM and NFXI-BEAM-T are intelligent reflector type linear optical beam smoke detectors designed to operate as a component of an intelligent fire alarm system. They operate primarily on the principle of light obscuration utilising infra-red beam. Optical beam smoke detectors are particularly appropriate for protecting buildings with large open spaces such as warehouses, atriums etc.

The NFXI-BEAM and NFXI-BEAM-T detectors are combined transmitter/receiver units, which can be directly connected to an intelligent loop. The Infra-Red transmitter generates a beam of light towards a high efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition. The NFXI-BEAM-T features a unique remote test capability that fully tests both the optics and the electronics of the device. An optical filter is automatically introduced in front of the optics, attenuating the returned beam and causing the unit to go into alarm.

Specifications

- **Weight:** 1.77kg
- **Detector dimensions (W x H x D):** 190 mm x 254 mm x 84 mm
- **Reflector dimensions (W x H):** 200 mm x 230 mm
  - Typical Standby: 2mA @ 24VDC
  - Max. Alarm Current (LED on): 8.5mA
  - (No communications, LED off)
- **Operating voltage range:**
  - 15 to 32VDC (24VDC Nominal)
  - 15 to 29 VDC if using built-in isolators
- **Operating Temperature Range:** -30°C to +55°C
- **IP Rating:** IP54
- **Relative humidity:** 0% to 95% (non condensing)
- **Approved to:** EN54-12, EN54-17

CPD-number: 0832-CPD-0330; VDS number: G205035

NFXI-BEAM

100m addr. reflective IR beam detector

Includes: Beam detector and Short range reflector (5-70m).

NFXI-BEAM-T

100m addr. reflective IR beam detector with self test tool

Same as NFXI-BEAM with servo motored test tool.

Beam Detector Accessories

BEAM-LRK

Long-range reflector (70m-100m)

The BEAM-LRK kit contains 3 reflectors (200mm x 230mm).
In combination with the short range reflector supplied with the beam, the 4 reflectors mounted in square form one big reflector surface which extends the beam range over 70m, up to a maximum distance of 100m.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
### Intelligent Beam Detector Accessories

#### BEAM-SMK
**Surface mounting box**

Absolutely needed when using the mounting Bracket kit.

#### BEAM-MMK
**Mounting bracket - swivel type**

Used for wall mount and ceiling mount applications.

*Must be used together with surface mounting box BEAM-SMK. (Beam not included.)*

#### BEAM-HK
**Heater kit for beam detector**

Avoid condensation problems in non heated rooms.

**Specifications**

- **Voltage:** 15 to 32V
- **Current:** 92mA max at 32V
- **Power consumption:**
  - nominal: 1.6W at 24V
  - maximum: 3W at 32V

#### BEAM-HKR
**Heater kit for reflector**

Avoid condensation problems in non heated rooms.

**Specifications**

- **Voltage:** 15 to 32V
- **Current:** 450mA max at 32V
- **Power consumption:**
  - nominal: 7.7W at 24V
  - maximum: 15W at 32V
Intelligent Manual Call Points

Indoor (IP24)

M700KACI, with an integrated isolator, is designed to provide a manual alarm interface to Notifier’s fire alarm control panel. Installation efficiency, flexibility and compliance with the latest standards are at the heart of the call point range. The unique ‘plug and play’ concept is designed specifically to reduce installation time by using a terminal block which can be wired during the initial installation cabling with a link (P102) to provide continuity for testing. During the commissioning phase, the links are removed and the terminal block is simply inserted into the connector at the back of the unit. No re-termination is required.

Both break glass, supplied, and resettable operating elements (PS230) can be used in the standard unit. Operation of the resettable element, as well as being indicated by the unit’s LED, is also indicated by a yellow strip on the element which becomes visible when activated. With the addition of a hinged transparent cover (PS200) the element may be protected against accidental operation and may be further protected by using a cover seal (PS056) which requires breaking in order to operate the unit. The call point uses one of 99 possible addresses which is simply ‘dialled in’ using the two rotary decade switches on the rear of the unit. A specialist test key may be inserted into the bottom of the unit to lower the glass and release the micro-switch and thus a full functional test is achieved.

Specifications

- Weight: Flush: 110g / Surface: 160g
- Dimensions (W x H x D):
  - Semi-flush mounting: 89 mm x 93 mm x 27.5 mm
  - Surface mounting: 89 mm x 93 mm x 59.5 mm
- Operating temperature: -10°C to +55°C
- Relative humidity: 0% to 95% (non-condensing)
- IP Rating: IP24
- Color: RAL3001
- Approved to: EN54-11, EN-17

CPD number: 0832-CPD-0702

Red colour

The red M700KACI call points contain:
- Operating element label: EN54-11 “Dot & Arrows”
- Function label: Burning House
For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

M700KACI-FG MCP flush with break glass element & isolator

M700KACI-FF MCP flush with flexible element & isolator

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Other colours

The M700KACI call points in other colors contain:
- Operating Element label: EN54-11 ‘dot & arrows’
- Function label: Plain color
For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

Please replace ‘x’ in the part n° by the code for the needed color: Y = yellow (RAL1006); G = green (RAL6016); B = blue (RAL5002); W = white (RAL9010)

Items available on request only. Please check the last price list for Lead time information.

M700KACI-FF-x MCP flush with flexible element & isolator
M700KACI-FG-x MCP flush with break glass element & isolator

Water resistant (IP67)

Specifications

- Weight: 270g
- Dimensions (WxHxD): 97.5 mm x 93 mm x 65.5 mm
- Operating temperature: -30°C to +70°C
- Color: RAL3001
- Approved to: EN54-11, EN54-17

CPD number: 0832-CPD-0892

Red colour

The red call M700WCP call points contain:
- Operating element label: EN54-11 “Dot & Arrows”
- Function label: Burning House
For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

M700WCP-R-I-SG MCP surface with break glass element & isolator
M700WCP-R-I-SF MCP surface with flexible element & isolator
Other colours

The M700WCP call points in other colors contain:
- Operating Element label: EN54-11 'dot & arrows'
- Function label: Plain color

For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

Please replace “x” in the part n° by the code for the needed color: Y = yellow (RAL1006); G = green (RAL6016); B = blue (RAL5002); W = white (RAL9010)

Items available on request only. Please check the last price list for Lead time information.

M700WCP-x-I-SF   MCP surface with flexible element & isolator
M700WCP-x-I-SG   MCP surface with break glass element & isolator

M700KACI Intelligent Manual Call Point Accessories

Surface Mounting boxes

Please replace “x” in the part n° by the code for the needed color: Y = yellow; G = green; B = blue; W = white

Not compatible with DIN series

SR1T   Surface mounting box red
Sx1T   Surface mounting box other color

Accessories

PS200   Transparent protective hinged cover

Please note that the below items are available on request only. Please check the last price list for Lead time information.

SC071   Terminal blocks (pack of 20)

Pack of 20 pieces.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

### Intelligent Manual Call Points

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL1 X 5</td>
<td>Earth continuity links (pack of 5)</td>
<td>- Weight: 400g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Dimensions (WxHxD): 124 mm x 124 mm x 33 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Operating temperature: -10°C to +60°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Color: RAL3000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Relative humidity: 10% to 93% (non-condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- IP rating: IP43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Approved to: EN54-11, EN54-17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CPD number: 0786-CPD-20389; VDS number: G205067</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>BZR2</td>
<td>Red bezel for flush installation</td>
<td>- Item available on request only. Please check the last price list for Lead time information.</td>
</tr>
<tr>
<td>PTR</td>
<td>Semi flush tray for MCP</td>
<td>- Item available on request only. Please check the last price list for Lead time information.</td>
</tr>
</tbody>
</table>

### DIN Series Manual Call Points

#### NFXI-DKMB
DIN class B call point with isolator - blue

- With TEXT “HAUSALARM”.
- Setting by push button or by a programming adapter kit BK200-X.
- Without key.
- Item available on request only. Please check the last price list for Lead time information.

#### NFXI-DKMR
DIN class B call point with isolator - red

- With symbol “Burnung House”.
- Setting by push button or by a programming adapter kit BK200-X.
- Without key.
- Item available on request only. Please check the last price list for Lead time information.

### DIN Series Accessories

- The below items are available on request only. Please check the last price list for Lead time information.

#### BK200-X
Programming adapter for DKM call point

#### DKMR/SCH/ALU
Aluminium spare key for DKM call point, per piece

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Foil with labels for Call Points & Switches

Please see the images of the labels on the next page.

Each foil contains 48 labels.

The below items are available on request only. Please check the last price list for lead time information.

**MCP-LABEL F 028**  Foil with 48 ‘ALARME INCENDIE’ labels (black on red)

**MCP-LABEL F 048**  Foil with 48 ‘KOEPPEL COUPOLE’ labels (white on red)

**MCP-LABEL F 056**  Foil with 48 ‘BRAND FEU’ labels (black on yellow)

**MCP-LABEL F 071**  Foil with 48 ‘EMERGENCY STOP’ labels (black on yellow)

**MCP-LABEL F 078**  Foil with 48 ‘EVACUATION’ labels (black on red)

**MCP-LABEL F 081**  Foil with 48 ‘FEU’ labels (black on yellow)

**MCP-LABEL F 082**  Foil with 48 ‘BLUSKNOP’ labels (black on yellow)

**MCP-LABEL F 138**  Foil with 48 ‘ALERTE INCENDIE’ labels (black on red)

**MCP-LABEL F 217**  Foil with 48 ‘EXTINCTION’ labels (black on yellow)

**MCP-LABEL F 218**  Foil with 48 ‘RUNNING MAN’ labels (white on green)

**MCP-LABEL F 220**  Foil with 48 ‘BIJ NOOD DEUR OPEN’ labels (white on blue)

**MCP-LABEL F 222**  Foil with 48 ‘EN54 BURNING HOUSE’ labels (white on red)

**MCP-LABEL F 228**  Foil with 48 ‘DEUR ONGRENDELING’ labels (white on blue)

**MCP-LABEL F 235**  Foil with 48 ‘ALERTE WAARSCHUWING’ labels (black on red)

**MCP-LABEL F 244**  Foil with 48 ‘UITSTEL BLUSSING’ labels (white on blue)

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
M700 Series

The M700 series modules is designed for use with any Notifier protocol fire alarm control panel and includes selectable loop isolation in every device.

- Intelligent communications
- Built-in type identification automatically identifies these devices to the control panel (not M700X)
- Stable communication technique with high noise immunity
- Rotary decade 01 to 159 address switches (not M700X)
- Common mounting options including Surface Mount, Panel Mount and DIN Rail Mount.
- Tri-colour LED's
- Powered directly by 2-wire loop. No additional power required (except M701)
- Plug-in terminal connections for ease of field wiring
- Approved to EN54-17/18

M710

Single supervised input module

The M710 module monitors a single input device circuit of normally open dry contact alarm activation devices.

**Specifications**

- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 90g
- Current consumption:
  - 310 μA @ 24 VDC (no comm.);
  - 510 μA @ 24 VDC (one comm. every 5 sec. with LED blink enabled).
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0786-CPD-20342; VdS number: G202160

M720

Double supervised input module

The M720 dual monitor module provides two supervised input device circuits of normally open dry contact alarm activation devices.

**Specifications**

- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 90g
- Current consumption:
  - 340 μA @ 24 VDC (no comm.),
  - 600 μA @ 24 VDC (one comm. every 5 sec. with LED blink enabled).
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0786-CPD-20342; VdS number: G202160
M721

Double supervised input + single relay output

In addition the M721 dual input, single relay output module, as well as providing two supervised inputs also provides a single change over relay output rated at 2A @30VDC.

The M720 module uses two addresses and the M721 uses three addresses of 99 available module addresses on a loop and responds to regular polls from the control panel reporting its type and the status (open/normal/short) of their supervised device circuits.

Specifications
- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 102g
- Current consumption:
  - 340 μA @ 24 VDC (no comm.)
  - 660 μA @ 24 VDC (one comm. every 5 sec. with LED blink enabled)
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0786-CPD-20343; VdS number: G202159

M701

Single supervised output module

The M701 control module provides a monitored single output circuit for use with polarised loads (sounder circuit) which requires a suitable power source (7VDC - 30VDC) for the connected load. Alternatively the same device may be placed in an unsupervised mode which can then be used to control any switched load up to 2A @ 30VDC.

Specifications
- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 102g
- Current consumption:
  - 310 μA @ 24 VDC (no comm.)
  - 510 μA @ 24 VDC (one comm. every 5 sec. with LED blink enabled)
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0786-CPD-20341; VdS number: G202161

M701-240

Single 240VAC/5A relay module

The M701-240 provides two (1 x N.O., 1 x N.C.) 250Vac (nominal 230Vac), 5Amp contact outputs.

The M701-240 is provided complete with a surface mounting back box.

Specifications
- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 200g
- Current consumption:
  - 275 μA @ 24 VDC (no comm.)
  - 445 μA @ 24 VDC (one comm. every 5 sec. with LED blink enabled)
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0786-CPD-20341; VdS number: G202161
**Intelligent Modules**

**M701-240 KO**

Single 240VAC/5A relay module (knock outs)

Wall mount with knockouts and rubber grommets, direct decade address entry and tri-colour LED’s complete with built-in isolator.

**Specifications**

- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 200g
- Current consumption:
  - 275 µA @ 24 VDC (no comm.),
  - 445 µA @ 24 VDC (one comm. every 5 sec. with LED blink enabled)
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

**CPD number:** 0786-CPD-20341; **VdS number:** G202161

---

**M701-240-DIN**

Single 240VAC/5A relay module (DIN rail mounting)

The M701-240-DIN provide two (1 x N.O., 1 x N.C.) 250Vac (nominal 230Vac), 5Amp contact outputs. Complete with DIN mounting enclosure, direct decade address entry and tri-colour LED’s complete with built-in isolator.

**Specifications**

- Weight: 195g
- Current consumption:
  - 275 µA @ 24 VDC (no comm.),
  - 445 µA @ 24 VDC (one comm. every 5 sec. with LED blink enabled)
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

**CPD number:** 0786-CPD-20341; **VdS number:** G202161

---

**M700X**

Single isolator module

Complete with plug-in screw connections and tri-colour LED.

**Specifications**

- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 62g
- Current consumption: 200 µA @ 24 VDC
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

**CPD number:** 0786-CPD-20340; **VdS number:** G202157
M710-CZR

Conventional zone input module - resistive

Complete with end of line resistors, plug-in screw connections, direct decade address entry and tri-colour LED's complete with built-in isolator.

**Specifications**
- Dimensions (W x H x D): 94 mm x 93 mm x 23 mm
- Weight: 90g
- Current consumption:
  - 310 µA @ 24 VDC (no comm.);
  - 510 µA @ 24 VDC (one comm. every 5 sec. with LED blink enabled)
- Operating voltage: 15 to 30VDC peak
- Operating temperature: -20°C to +60°C
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0832-CPD-1391; VdS number: G210089

M200-SMB

Surface mount box

Compatible with M700 series modules.

**Specifications**
- Dimensions (W x H x D): 139 mm x 134 mm x 40 mm
- IP rating: IP50

M200-SMB KO

Surface mount box with knock outs

Compatible with M700 series modules.
Complete with rubber grommets.

**Specifications**
- Dimensions (W x H x D): 139 mm x 134 mm x 40 mm

M200-PMB

Panel mounting bracket

With 2 holes for fixing.
To be used with M700 series modules.

M200-DIN

DIN-Rail bracket

To be used with M700 series modules.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO524-1</td>
<td>Micro isolator module</td>
<td>To build inside SR3T back box of intelligent call point.</td>
</tr>
<tr>
<td>MMX-10M</td>
<td>10 way intelligent input monitor card *</td>
<td>Complete with end of line resistors, individual input disable switches, plug in screw connections and on board LED's with the facility for external LED's (unboxed). Max. 4 connections on an intelligent loop (Advanced).</td>
</tr>
<tr>
<td>CMX-10RM</td>
<td>10 way intelligent relay control card *</td>
<td>Complete with individual output disable switches, plug in screw connections and on board LED's with the facility for external LED's (unboxed). Max. 4 connections on an intelligent loop (Advanced).</td>
</tr>
<tr>
<td>MCX-55M</td>
<td>5 way intelligent input monitor &amp; 5 way intelligent relay *</td>
<td>Complete with end of line resistors and relays (30VDC - 1A) on board LED's with the facility for external LED's (unboxed). Max. 4 connections on an intelligent loop (Advanced).</td>
</tr>
</tbody>
</table>

These modules use CLIP addresses. *: Pay attention to the max. number of CLIP addresses on advanced loop when loop communication is in advanced protocol.
CZ-6

6 way zone interface module *

The CZ-6 way zone interface module is intended for use in an intelligent alarm system. Each module provides an interface between the intelligent alarm system and a conventional alarm system loop. A common SLC input is used for all modules, and the initiating device loops share a common supervisory supply and ground. Otherwise, each monitor operates independently from the others. Requires a separate reset.

Specifications

- Weight: 360g
- Dimensions (W x H x D): 147 mm x 185 mm x 25 mm
- Normal operating voltage: 15-32 VDC
- Stand-By Current: 2 mA
- Temperature Range: 0°C to 49°C
- Relative humidity: 10 to 85% (non-condensing)
- Approved to: EN54-18

CPD number: 0832-CPD-0929

SC-6

6 way supervised sounders output module *

The SC-6 six way supervised sounder output module is intended for use in an intelligent alarm system. Each module is intended for switching applications involving DC which require wiring supervision. A common SLC input is used for all modules. Each module has its own address. A pair of rotary code switches is used to set the address of the first module from 01 to 94. The remaining modules are automatically assigned to the next five higher addresses.

Provisions are included for disabling a maximum of three unused modules to release the addresses to be used elsewhere. Each module also has panel controlled green LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

Specifications

- Weight: 460g
- Dimensions (W x H x D): 147 mm x 185 mm x 25 mm
- Normal Operating Voltage: 15-32VDC
- Stand-By Current: 2.25 mA
- Temperature Range: -10°C to 55°C
- Relative humidity: 10 to 93% (non-condensing)
- Approved to: EN54-18

CPD number: 0832-CPD-0930

NFX-MM1M

Intelligent mini monitor module

Intelligent mini monitor module with 1 monitored input circuit, to supervise alarm initiating devices or technical signals that have voltage free contact. It connects directly to the intelligent communication loop.

Compatible with OPAL (159 + 159) and CLIP (99 + 99) protocols.

Specifications

- Weight: 57g
- Dimensions (W x H x D): 71 mm x 33 mm x 15 mm
- Approved to: EN54-18

CPD number: 0359-CPD-0176

These modules use CLIP addresses.

*: Pay attention to the max. number of CLIP addresses on advanced loop when loop communication is in advanced protocol.

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
Intelligent Systems

MMX-102E/KAC  Intelligent remote indicator driver (LED output)

Intelligent LED output module to be used for driving a remote indicator. It connects directly to the intelligent communication loop.

**Specifications**
- Dimensions (W x H x D): 80 mm x 65 mm x 20mm

002-439  Multi-mount enclosure (MME)

Metal box in Notifier grey colour (RAL7021). Can hold two standard size modules or two 10 way I/O module MMX-10M, CMX-10RM, or two mains relay modules.

SMB6-V0  Multi-mount ABS antistatic box

VO Flame retardant box in Notifier grey colour. Can hold up to 6 M700 modules (DIN accessory is not required). Compatible with MMX-10M, CMX-10RM & MCX-55M.

**Specifications**
- Weight: 700g
- Dimensions (W x H x D): 245 mm x 180 mm x 50 mm

SMBW-VO  ABS antistatic box for multimodule

VO Flame retardant box, color cream. Can hold 1 multimodule (CMX-10RM, MMX-10M, MCX-55M, CZ-6 and SC-6).

**Specifications**
- Weight: 720g
- Dimensions (W x H x D): 245 mm x 100 mm x 50 mm

BB-2  Multi-mount steel cabinet

Up to 2 modules (xx-6 series). Red coated enclosure.

**Specifications**
- Dimensions (W x H x D): 227 mm x 305 mm x 93 mm

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
BB-6  Multi-mount cabinet

Up to 6 modules (xx-6 series) can be mounted using the BB-6 mount chassis. Red coated enclosure.

**Specifications**

- Dimensions (W x H x D): 319 mm x 610 mm x 164 mm

CH-6  Mount chassis for BB-6

The CH-6 chassis is mounted in the BB-6 cabinet. It is shipped with two self-threading screws, which are used to fasten the chassis to the back wall of the cabinet.
B501AP base allows the OPAL™ AV range and the OPAL Advanced range of devices to share a common installation base, giving reduced inventory costs.

- Greater flexibility of installation. Decisions regarding the positioning of OPAL™ AV and smoke detection can be delayed until the commissioning stage.
- Maintain electrical and mechanical compatibility with the Notifier detector range.
- The visual products meet the requirement of the latest EN54-23.
- The audible products meet the requirements of EN54-03.
- Loop powered with low current draw.
- Supports the Advanced Protocol and the legacy Series 500 Protocol.
- Sounders and strobes will be fully controllable from the panel, enabling tone selection and output levels to be set from the panel according to the status of the alarm; all sounders and strobes on each loop will automatically be synchronised.
- Flush, surface and waterproof mounting base options.
- Loop address set using the familiar rotary switches.

The range consists of sounders, strobes and sounder-strobes in both wall-mounted and detector base configurations. A major feature of the new family is that both the wall-mounted and detector base devices will use the new Series 200 Advanced B501AP base, thereby reducing the number of separate parts that have to be stocked and managed. The new devices are not backwards compatible with the AVAX range.

### Specifications

- **Supply voltage:** 15 to 28VDC
- **Standby current:** 225µA
- **Temperature range:** -25°C to +70°C
- **Relative humidity:** Max. 95% (non-condensing)
- **IP rating:**
  - IP24 with low profile base (B501AP)
  - IP44 with deep bases (BRR, BPW, BDD)
  - IP65 for NFXI-BS with sealed deep base (WRR)
- **Wire gauge for terminals:** 1.5 - 2.5mm² max.
- **Approved to:** EN54-3, EN54-17

### OPAL™ AV Wall sounders

**Specifications**

- **Dimensions (Ø x h):** 121 mm x 64 mm
- **Weight:** 168g
- **Body color:** Red or Pure white
- **Number of tones:** 32
- **Volume settings:** High, Medium & Low
- **Max. current consumption:** 11.4mA (High volume tone 21 @ 24V)
- **Max. sound output:** 97dB(A) ±3dB @ 1m (High volume, tone 8 @ 24V - tone dependent)

CPD number: 0832-CPD-1810

#### NFXI-WS-W

Wall mount sounder - isolation - pure white

#### NFXI-WS-R

Wall mount sounder - isolation - red
OPAL™ AV Wall sounder strobes

### Specifications

- **Dimensions (Ø x h):** 121 mm x 64 mm
- **Weight:** 238g
- **Lens color:** Red or Clear
- **Light color:** Red
- **Number of tones:** 32
- **Beacon flash rate:** 1Hz
- **Volume settings:** High, Medium & Low
- **Max. current consumption:** 14.7mA (High volume tone 21 @ 24V)
- **Max. sound output:** 97dB(A) ±3dB @ 1m (High volume, tone 8 @ 24V - tone dependent)

CPR number: 0832-CPR-F0278

**NFXI-WSF-WC**
Wall mount sounder strobe - isolation - pure white, clear lens

**NFXI-WF-AA**
Wall mount strobe - isolation - amber (not compliant to EN54-23)

**NFXI-WF-WC**
Wall mount strobe - isolation - pure white, clear lens (EN54-23 compliant)

OPAL™ AV Wall mount strobes

### Specifications

- **Dimensions (Ø x h):** 121 mm x 51 mm
- **Weight:** 238g
- **Lens color:** Red or Amber
- **Light color:** Red or Amber
- **Beacon flash rate:** 1Hz
- **Max. current consumption:** 3.5mA

CPR number: 0832-CPR-F0271

### OPAL™ AV Base sounders

**Specifications**

- **Dimensions (Ø x h):** 121 mm x 64 mm
- **Weight:** 200g
- **Body color:** Pure white or Ivory
- **Number of tones:** 32
- **Volume settings:** High, Medium & Low
- **Max. current consumption:** 10.5mA (High volume tone 21 @ 24V)
- **Max. sound output:** 97dB(A) ±3dB @ 1m (High volume, tone 8 @ 24V - tone dependent)

CPD number: 0832-CPD-1814

**NFXI-BS-W**
Integrated detector base sounder - isolation - pure white

**NFXI-BS-IV**
Integrated detector base sounder - isolation - ivory

For spare parts, please refer to § Spare Parts at the end of this chapter (01. Intelligent Systems)
**OPAL™ AV Base sounders-strobe**

Integrated detector base sounder with supplementary visual indicator - isolation - pure white, clear lens (only EN54-3 compliant)

**Specifications**
- Dimensions (Ø x h): 121 mm x 64 mm
- Weight: 202g
- Lens color: Clear
- Light color: Red
- Number of tones: 32
- Beacon flash rate: 1Hz
- Volume settings: High, Medium & Low
- Max. current consumption: 14mA (High volume tone 21 @ 24V)
- Max. sound output: 97dB(A) ±3dB @ 1m (High volume, tone 8 @ 24V - tone dependent)

CPD number: 0832-CPD-1816

**NFXI-BSF-WC**

**OPAL™ AV Mounting bases**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B501AP</td>
<td>Low profile base - pure white</td>
</tr>
<tr>
<td>B501AP-IV</td>
<td>Low profile base - ivory</td>
</tr>
<tr>
<td>BRR</td>
<td>Deep profile base - red (includes B501AP)</td>
</tr>
<tr>
<td>BDD</td>
<td>Deep profile base - ivory (includes B501AP)</td>
</tr>
<tr>
<td>BPW</td>
<td>Deep profile base - pure white (includes B501AP)</td>
</tr>
<tr>
<td>WRR</td>
<td>Deep waterproof base - red (includes B501AP)</td>
</tr>
<tr>
<td>WDD</td>
<td>Deep waterproof base - ivory (includes B501AP)</td>
</tr>
<tr>
<td>WPW</td>
<td>Deep waterproof base - pure white (includes B501AP)</td>
</tr>
</tbody>
</table>
The Loop Booster has been designed to provide extra power to a loop to power additional loop powered devices, especially high current drawing ‘alarm’ devices such as loop powered sounders and strobes. As an intelligent device a number of loop boosters can be added to a loop within the normal intelligent range (01 to 99). It is recommended that no more than 2 loop boosters be added to any particular loop.

The Loop Booster has been designed to be connected to mains power (230VAC) and with two 12V, 12 Ahr sealed lead-acid batteries provides up to 72 hours standby. Please note that that only this size of battery is suitable. If the loop booster battery charging voltage falls below 21V, the batteries are disconnected automatically to prevent damage.

This device doesn't extend the length of loop.

CPD number: 0786-CPD-20604

002-629  IDP-LPB1 loop booster boxed
<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Spare part for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-469-009</td>
<td>NF2000 extension chassis kit, zones 17-80</td>
<td>NF2000</td>
</tr>
<tr>
<td>020-491-009</td>
<td>Display plate with 2x40 LCD assembly kit for NF2000</td>
<td>NF2000</td>
</tr>
<tr>
<td>020-543</td>
<td>NF3000 dual transmission path board kit</td>
<td>NF2000/NF3000</td>
</tr>
<tr>
<td>020-568-2K</td>
<td>NF2000 base PCA assembly kit for use with the last NF2000 (020-628) only (Post-CPD).</td>
<td>NF2000</td>
</tr>
<tr>
<td>020-568-3K</td>
<td>NF3000 base PCA assembly kit for use with the NF3000 pre-CPD only.</td>
<td>NF3000</td>
</tr>
<tr>
<td>020-569</td>
<td>NF2000/3000 CPU PCB assembly kit. This kit is backward compatible with all NF2000's. Use this kit for software upgrades of old NF2000's (020-468-009)/ NF2008's (020-545-009), pre-CPD.</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-569-3K</td>
<td>NF3000 CPU PCA assembly kit, post-CPD.</td>
<td>NF3000</td>
</tr>
<tr>
<td>020-570</td>
<td>240x64 pixel LCD kit for NF3000</td>
<td>NF3000</td>
</tr>
<tr>
<td>020-571</td>
<td>Display plate with 240x64 pixel LCD assembly kit for NF3000</td>
<td>NF3000</td>
</tr>
<tr>
<td>020-579</td>
<td>Power supply 7A for NF2000/3000</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-638-002</td>
<td>NF30/50-CAB-A1 replacement PCB assembly kit, incl. all electronics for the NF30/50-A series panel on the PCB, Liquid Crystal Display (LCD), fascia membrane and language inserts, supplied as a replacement spare kit. Includes installation instructions.</td>
<td>NF30/50-CAB-A1</td>
</tr>
<tr>
<td>020-650-002</td>
<td>NF30/50-CAB-B1/C2 replacement PCB assembly kit, incl. all electronics for the NF30/50 series panel on the PCB, Liquid Crystal Display (LCD), fascia membrane and language inserts, supplied as a replacement spare kit. Includes installation instructions.</td>
<td>NF30/50-CAB-B1/C2</td>
</tr>
<tr>
<td>020-701</td>
<td>Adaptor plate kit for old NF2000/3000, supplied complete with interconnecting power cables for old style NF2000's.</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-717</td>
<td>Mains lead with IEC connector wired to mains input terminal block for back boxes with mains connector on the right of the box.</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-718</td>
<td>Mains lead with IEC connector wired to mains input terminal block for battery boxes and NGU boxes with mains connector on the left of the box.</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-797</td>
<td>Text insert label kit NF3000</td>
<td>NF3000</td>
</tr>
<tr>
<td>020-800</td>
<td>Text insert label kit for IDR repeaters</td>
<td>IDR2-6A/P</td>
</tr>
<tr>
<td>020-801</td>
<td>Text insert label kit for NF30/NF50-CAB-A1</td>
<td>NF30-50-CAB-A1</td>
</tr>
<tr>
<td>020-807</td>
<td>Text insert label kit for NF30/NF50-CAB-C2</td>
<td>NF30-50-CAB-C2</td>
</tr>
<tr>
<td>020-808</td>
<td>Text insert label kit for NF30/NF50-CAB-B1</td>
<td>NF30-50-CAB-B1</td>
</tr>
<tr>
<td>020-820</td>
<td>Replacement paper roll for printer kit</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-836</td>
<td>Spare key 901 for NF30/50/3000</td>
<td>NF30/50/3000</td>
</tr>
<tr>
<td>020-845</td>
<td>NF2000/3000 LED extension cable, 2m. Required when the extension chassis is installed in the back box extension.</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-846</td>
<td>NF2000/3000 extended panel printer cable, 2m. Required when the printer is installed in the back box extension.</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>020-868</td>
<td>Fascia NF3000</td>
<td>NF3000</td>
</tr>
<tr>
<td>020-874</td>
<td>Fascia for NF50, 5 button version</td>
<td>NF50</td>
</tr>
<tr>
<td>020-884</td>
<td>NF3000 base PCA assembly kit for use with the new NF3000 post-CPD only.</td>
<td>NF3000</td>
</tr>
<tr>
<td>334-042</td>
<td>Lock and key (830) set (key only is not separate available) for main user interface door (020-482)</td>
<td>NF2000/3000</td>
</tr>
<tr>
<td>DKMR/EG/OD</td>
<td>Spare break glass for DKM call point, pack of 10</td>
<td>DIN call points</td>
</tr>
<tr>
<td>DKMR/SCH/ALU</td>
<td>Aluminium spare key for DKM call point, per piece</td>
<td>DIN call points</td>
</tr>
<tr>
<td>EPROM-NF2K</td>
<td>Latest eprom version for NF2000 upgrade purposes</td>
<td>NF2000</td>
</tr>
<tr>
<td>EPROM-NF3K</td>
<td>Latest eprom version for NF3000 upgrade purposes</td>
<td>NF3000</td>
</tr>
<tr>
<td>ESPA4.4.4-CABLE</td>
<td>Programming cable for NF3K-ESPA4.4.4</td>
<td>NF3K-ESPA4.4.4</td>
</tr>
<tr>
<td>ESPA4.4.4-TEST_PROG</td>
<td>ESPA 4.4.4 test interface</td>
<td>NF3K-ESPA4.4.4</td>
</tr>
<tr>
<td>FASCIA-NF2000</td>
<td>Fascia NF2000</td>
<td>NF2000</td>
</tr>
<tr>
<td>FASCIA-NF50-4</td>
<td>Fascia for NF50, 4 button version</td>
<td>NF50</td>
</tr>
<tr>
<td>HLS-OPTO-RS232</td>
<td>RS232 optical isolation transceiver</td>
<td>NF3K-ESPA4.4.4</td>
</tr>
<tr>
<td>MUS 156</td>
<td>EN54 break glass for M700 call points (pack of 10)</td>
<td>Intelligent call points</td>
</tr>
<tr>
<td>PS230</td>
<td>EN54 flexible op. elements for M700 call points (pack of 10)</td>
<td>Intelligent call points</td>
</tr>
<tr>
<td>Part number</td>
<td>Description</td>
<td>Spare part for:</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>PS241</td>
<td>1 Notifier branded flexible element</td>
<td>Intelligent call points</td>
</tr>
<tr>
<td>RF-FTX</td>
<td>Replacement filter for HPX-751E</td>
<td>HPX-751E</td>
</tr>
<tr>
<td>SC011</td>
<td>Screws for MCP call points (pack of 100)</td>
<td>Intelligent call points</td>
</tr>
<tr>
<td>SC070</td>
<td>Spare test keys (pack of 10)</td>
<td>Intelligent call points</td>
</tr>
<tr>
<td>SC071</td>
<td>Pack of 20 terminal blocks</td>
<td>Intelligent call points</td>
</tr>
<tr>
<td>SPARE LOCK 901</td>
<td>Spare lock key for 901 for NF30 and NF3000</td>
<td>NF30/50/3000</td>
</tr>
<tr>
<td>SPR-PRL-BASE-2</td>
<td>Spare Pearl base card - two loop</td>
<td>Pearl</td>
</tr>
<tr>
<td>SPR-PRL-BASE-1</td>
<td>Spare Pearl base card - one loop</td>
<td>Pearl</td>
</tr>
<tr>
<td>SPR-PRL-CPU</td>
<td>Spare Pearl CPU module</td>
<td>Pearl</td>
</tr>
<tr>
<td>SPR-PRL-DOOR</td>
<td>Spare Pearl door assembly</td>
<td>Pearl</td>
</tr>
<tr>
<td>SPR-PRL-PSU</td>
<td>Spare Pearl PSU assembly</td>
<td>Pearl</td>
</tr>
<tr>
<td>WF1-EN54</td>
<td>Spare EN54 flexible operating element for W call points</td>
<td>W Call points</td>
</tr>
</tbody>
</table>
Conventional Systems

![Conventional Fire Alarm Control Panel](image)

<table>
<thead>
<tr>
<th>Zone 1</th>
<th>Zone 2</th>
<th>Zone 3</th>
<th>Zone 4</th>
<th>Zone 5</th>
<th>Zone 6</th>
<th>Zone 7</th>
<th>Zone 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Fault</td>
<td>Disarm</td>
<td>Text</td>
<td>Delay On</td>
<td>System Fault</td>
<td>Earth Fault</td>
<td>Power Supply Fault</td>
</tr>
<tr>
<td>Sounder</td>
<td>Stop</td>
<td>Start</td>
<td>Alarm</td>
<td>Relay On</td>
<td>Relay Off</td>
<td>Normal</td>
<td></td>
</tr>
<tr>
<td>Zone 1 Status</td>
<td>Zone 2 Status</td>
<td>Zone 3 Status</td>
<td>Zone 4 Status</td>
<td>Zone 5 Status</td>
<td>Zone 6 Status</td>
<td>Zone 7 Status</td>
<td>Zone 8 Status</td>
</tr>
<tr>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
<td>Normal</td>
</tr>
</tbody>
</table>
Conventional Systems

Notes
Developed with efficiency in mind, NFS2-8 zone non-intelligent fire alarm panels offer both installers and end users a technically advanced range of functions while remaining easy to install, program and operate. A full range of non-intelligent detectors, advanced non-intelligent detectors, beam detectors, manual call points, duct mounting applications, audible and visible alarm devices are available for use with the panels.

NFS2-8 series fire alarm panels are ideally suited for facilities including offices, shop units, public houses, B & B, clubs, small industrial units, nursing homes and schools, offering a wide range of benefits to installers and end-users.

### Specifications

- **Dimensions (W x H x D):** 356 mm x 318 mm x 96 mm
- **Weight:** 2kg (without batteries)
- **Supply rating:** 230V–(AC) ± 15%, 50 / 60Hz, 1.6A
- **Auxiliary output voltage:** 18.0-28.5VDC
- **Auxiliary output current:** 0.5A maximum
- **Sounder circuit:** 0.5A maximum per circuit
- **Sounder circuit total:** 1.0A maximum
- **Operating temperature:** -5°C to +45°C
- **Relative humidity:** 5% to 95% (non-condensing)
- **IP rating:** IP30
- **Optional sounder module may be used with an external power supply to give an additional 1.5A per module**

The EN54-13 Bosec System certificate (B-9057-FD-893-b) contains the following items:

- **Conventional fire panel**
  - NFS2-8
- **ECO1000 Detectors & Bases:**
  - ECO1002
  - ECO1003
  - ECO1005
  - ECO1005T
  - ECO1004T
  - ECO1000B(R)
  - ECO1000DB(R)
- **S800 Detectors & Bases:**
  - SD-851E
  - SD851TE
  - FD-851RE
  - FD-851TE
  - FD-851HTE
  - B401(R)
  - B401DG
  - B401DGR
- **Beam detectors**
  - 6500R(S)
- **Manual Call Points**
  - MCP1A-xxxxxx-01
  - WCP1A-xxxxxx-01
  - MCP2A-xxxxxx-01
  - M3P3A-xxxxxx-01
  - WCP3A-xxxxxx-01
  - M4P4A-xxxxxx-01
- **Sounders**
  - CWSO-RR-R1
  - CWSO-WW-R1
- **Sounders with visual alarm**
  - CWSS-RR-R5
  - CWSS-WW-R5
- **Others**
  - IRK-2E
  - IRK-E-SI

**NFS Series**

- Zones configurable for delay, coincidence, short-circuit alarm, capacitor or resistive end of line
- Fire and fault outputs - volt-free relay or monitored (optional)
- Auxiliary power output for ancillary equipment
- 2 configurable inputs for ancillary equipment (e.g. class change, alert, etc.)
- Space for two option modules
- Optional 8-way relay module, common or zonal switching
- Optional 1.5A 4-way sounder module, common or zonal switching
- Simple to install
- Robust fire resistant ABS moulded enclosure
- Battery space for up to 72 hours stand-by
- 2, 4 or 8 zone versions available
Conventional Systems

NFS Accessories

020-713  FS02 A/F Fire and fault relay expansion card

Fire and fault relay outputs for the NFS series panels.

**Specifications**

- **Weight:** 65g
- **Dimensions (L x W x H):** 65 mm x 37 mm x 12 mm
- **Connection:** connects directly to the panel using the SK2
- **Relay contacts:** Rated 30VDC/1A

020-747  8-Way relay board

8 relay outputs which are configurable as N/O or N/C by jumper links (1A @ 30VDC). Link setting allows 4 function presets to be configured for all 8 relays.

**Specifications**

- **Weight:** 210g
- **Max Current (per PCB):**
  - Quiescent: 0.1mA
  - Alarm/all active: 80.1mA
- **Relay contacts:** Rated at 30VDC, 1A.

Max 2 x 020-747 per panel.

020-772  4-Way sounder / monitored output board

Provides 4 monitored circuits with provision for external PSU and 2 digital inputs.

**Specifications**

- **Sounder PCB outputs:** 26 - 28.5VDC
- **If DIP switch 6 is set to >250mA:** 4 x 1A (maximum of 1.5A in total for 2 or more outputs)
- **If DIP switch 6 is set to <250mA:** 4 x 250mA
- **Digital Inputs:**
  - 2 x 5-32VDC
  - 20-30VDC, 5A
- **Sounder PCB input:** EN54 Part 4 with power status volt-free contact (NC when there are no faults present)
- **Compliancy:**
  - Quiescent: 47mA
  - Alarm/all active: 1547mA

This board is required to comply with EN54-13.

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
The ECO1000 series is the Notifier range of conventional detectors. These detectors have been produced using the latest in manufacturing technology and supplied with an array of advanced features, making them “better by design”.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of ECO1000 detectors for alarm test purposes. The unit transmits a coded message, preventing spurious alarms being generated by other laser based devices. With a range of several meters, the hand held test unit provides an effortless way of remotely testing the ECO1000 range of detectors and removes the need for any direct physical access to the detector by the user.

The ECO1000 detectors also have an internal LED, which illuminate to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal. The detector base is fitted with a shorting spring to permit circuit testing prior to fitting the detector and has a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool.

**Specifications**

- Operating temperature range: -30°C to +70°C
- Operating voltage range: 14-28VDC (Nominal 24VDC)
- Storage temperature range: -40°C to +85°C
- Relative humidity: 5% to 95% (non-condensing)
- Material: ABS

**ECO1003**

**Optical conventional detector**

The ECO1003 photoelectric smoke detector uses a state of the art optical chamber combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. A combination of the unique chamber design and other technically advanced features will significantly extend the service intervals before the cleaning of the detector becomes necessary.

**Specifications**

- Dimensions (Ø x h): 102 mm x 32.5 mm (without base)
- Weight: 75g (+45g for standard base)

**CPD number:** 0832-CPD-0064; **Vds number:** G201060

**ECO1005**

**Rate of rise thermal conventional detector**

The ECO1005 class A1R thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. The detector incorporates a static element and is suitable where ambient conditions normally exhibit high temperatures.

**Specifications**

- Dimensions (Ø x h): 102 mm x 40.5 mm (without base)
- Weight: 70g (+45g for standard base)

**CPD number:** 0832-CPD-0066; **Vds number:** G201016
Conventional Detectors

ECO1005T  
Fixed thermal conventional detector (58°C)

The ECO1005T class A2S thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. The detection incorporates a static element and is suitable where ambient conditions normally exhibit high temperatures.

Specifications

- Dimensions (Ø x h): 102 mm x 40.5 mm (without base)
- Weight: 70g (+45g for standard base)

CPD number: 0832-CPD-0067; Vds number: G201073

ECO1004T  
Fixed thermal conventional detector (78°C)

The ECO1004T detector uses a state of the art class BS and A1R thermal element combined with a microprocessor, running sophisticated algorithms to provide quick and accurate detection of fires. The detection incorporates a static element and is suitable where ambient conditions normally inhibit rapid changes in temperature, eg kitchens.

Specifications

- Dimensions (Ø x h): 102 mm x 40.5 mm (without base)
- Weight: 70g (+45g for standard base)

CPD number: 0832-CPD-0068; VDS number: G204042

ECO1002  
Optical/thermal detector

The ECO1002 multi-criteria detector uses a state of the art optical chamber and a class A1R thermal element combined with a microprocessor, running sophisticated algorithms to provide quick and accurate detection of fires. The combination of photoelectric and thermal characteristics provides a faster response to 'real fire' situations, while at the same time reducing the risk of unwanted environmentally generated alarms.

Specifications

- Dimensions (Ø x h): 102 mm x 40.5 mm (no base)
- Weight: 78g (+45g for standard base)

CPD number: 0832-CPD-0065; Vds number: G201067

ECO1000B  
Standard mounting base

Specifications

- Dimensions (Ø x h): 102 mm x 21 mm
## Conventional Detectors

<table>
<thead>
<tr>
<th>ECO1000BR</th>
<th>Base with 470R resistor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO1000DB</td>
<td>Deep base</td>
</tr>
</tbody>
</table>

### Specifications

- Dimensions (Ø x h): 102 mm x 33 mm

<table>
<thead>
<tr>
<th>ECO1000DBR</th>
<th>Deep base with 470R resistor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO1000BREL12NL</td>
<td>12V Relay base non latching</td>
</tr>
</tbody>
</table>

Interface for 12V systems that do not provide a reset facility. Resets automatically the ECO detector when the fire alarm condition no longer exists.

<table>
<thead>
<tr>
<th>ECO1000BREL12L</th>
<th>12V Relay base latching</th>
</tr>
</thead>
</table>

Interface for 12V systems that latches the detector into alarm. The detector can only be reset by removing its supply voltage. The base can be used with 4 wire security systems that have a reset facility.

<table>
<thead>
<tr>
<th>ECO1000BREL24L</th>
<th>24V Relay base latching</th>
</tr>
</thead>
</table>

Interface for 24V system that requires an external contact. The detector stays in alarm until the removing of its supply voltage. A break-off tab allows the base to be connected to fire control panels. This tab should be broken when there is little current flow or no current limiting resistor such as when used as a 24V stand-alone system.

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Detectors

**800 Series**

Processor enhanced detection series of conventional detectors. These detectors have been produced using the latest in manufacturing and design technical, pushing out the boundaries of existing conventional detector technology. With an on board microprocessor, it’s multitude of enhanced features including drift compensation, provides the best in conventional detection.

**Specifications**
- Operating voltage: 8 to 30 VDC (Nominal 12/24VDC)

**SD-851E**

Optical smoke detector

The SD-851E forms part of the processor enhanced detection series of conventional detectors. It incorporates an optical chamber which is continually monitored by an on board processor which uses algorithms developed specifically for the unit. An alarm signal is only enabled in the detector once the processor is satisfied that an incipient fire has been detected thereby reducing the incidence of nuisance alarms.

**Specifications**
- Dimensions (Ø x h): 102 mm x 38 mm (without base)
- Weight: 105g
- Current consumption:
  - Alarm: 80 mA @ 24 VDC (limited by the panel)
  - Standby: 50μA @ 24 VDC (no led blinks)
- Approved to: EN54-7

CPD number: 0832-CPD-0086; VdS number: G202013

**SD-851TE**

Optical thermal smoke detector (58°C)

The SD-851TE photoelectric smoke/ thermal detector incorporates an optical chamber and a thermal element, which in turn are continually monitored by an on board processor by using algorithms developed specifically for the unit. An alarm signal is only enabled in the detector once the processor is satisfied that an incipient fire has been detected.

**Specifications**
- Dimensions (Ø x h): 102 mm x 38 mm (without base)
- Weight: 115g
- Current consumption:
  - Alarm: 80 mA @ 24 VDC (limited by the panel)
  - Standby: 50μA @ 24 VDC (no led blink)
- Approved to: EN54-5 & 7 (Class A1R)

CPD number: 0832-CPD-0087; VdS number: G202019
Conventional Detectors

FD-851RE
Rate of rise heat detector (+/- 10°C & 58°C)

The FD-851RE forms part of the processor enhanced detection series of conventional detectors. The FD-851RE thermal detector incorporates the latest in thermal element technology, the detector provides efficient and accurate detection of fires, especially in environments such as boiler houses or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

Specifications
- Dimensions (Ø x h): 102 mm x 48 mm
- Weight: 105g
- Current consumption:
  - Alarm: 80 mA @ 24 VDC (limited by the panel)
  - Standby: 60μA @ 24 VDC (no led blink)
- Approved to:
  - EN54-5 (Class A1R)

CPD number: 0832-CPD-0089; VdS number: G202015

FD-851TE
Fixed temperature heat detector (58°C)

The FD-851TE thermal detector incorporates the latest in thermal element technology, the detector provides efficient and accurate detection of fires, especially in environments such as boiler houses or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

Specifications
- Dimensions (Ø x h): 102 mm x 48 mm
- Weight: 105g
- Current consumption:
  - Alarm: 80 mA @ 24 VDC (limited by the panel)
  - Standby: 60μA @ 24 VDC (no led blink)
- Approved to:
  - EN54-5 (Class A2S)

CPD number: 0832-CPD-0191

FD-851HTE
Fixed temperature heat detector (78°C)

The FD-851HTE thermal detector incorporates the latest in thermal element technology, the detector provides efficient and accurate detection of fires, especially in environments such as boiler houses or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

Specifications
- Dimensions (Ø x h): 102 mm x 48 mm
- Weight: 105g
- Current consumption:
  - Alarm: 80 mA @ 24 VDC (limited by the panel)
  - Standby: 65μA @ 24 VDC (no led blink)
- Approved to:
  - EN54-5 (Class BS)

CPD number: 0832-CPD-0088; VdS number: G202017

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Detectors

B401 Standard two wire base

The B401 plug-in detector base is designed for use with Notifier 800 Series smoke and heat detector heads. The capacity of plugging these detectors into a variety of special bases makes them more versatile than equivalent direct-wired models.

The B401 base is intended for use in 2-wire systems, with screw terminals provided for power and remote annunciator connections.

**Specifications**
- Dimension (Ø x h): 102 mm x 19 mm
- Weight: 70g
- Operating Temperature Range: -10°C to +60°C

B401R Standard base with 470R resistor

**Specifications**
- Dimension (Ø x h): 102 mm x 19 mm
- Weight: 60g
- Material: PC/ABS

B401DG 26 mm deep mounting base

**Specifications**
- Dimension (Ø x h): 102 mm x 24 mm
- Weight: 74g
- Material: PC/ABS

B401DGR 26 mm deep mounting base with 470R resistor

**Specifications**
- Dimension (Ø x h): 102 mm x 24 mm
- Weight: 80g
- Material: PC/ABS
Conventional Detectors

Conventional Systems

B312NL  12V non-latching relay base

Interface for 12V systems that do not provide a reset facility. Resets automatically the 800 Series detectors when the fire alarm condition no longer exists.

Specifications
- Dimensions (Ø x h): 127 mm x 29 mm
- Weight: 123g
- Material: PC/ABS

B312RL  12V latching relay base

Interface for 12V systems that latches the detector into alarm. The detector can only be reset by removing its supply voltage. The base can be used with 4 wire security systems that have a reset facility.

Specifications
- Dimensions (Ø x h): 127 mm x 29 mm
- Weight: 123g
- Material: PC/ABS

B324RL  24V latching relay base

Interface for 24V system that requires an external contact. The detector stays in alarm until the removing of its supply voltage. A break-off tab allows the base to be connected to fire control panels. This tab should be broken when there is little current flow or no current limiting resistor such as when used as a 24V stand-alone system.

Specifications
- Dimensions (Ø x h): 127 mm x 29 mm
- Weight: 123g
- Material: PC/ABS

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Detectors Accessories

S300ZDU Zone display unit

The Zone Display Unit is a transparent module directly connected to the control panel and requires no external power supply. The ZDU works with the 800 series detector range. When a detector goes into alarm the control panel will indicate the status. The ZDU then keeps the panel latched in alarm, and disconnects the detectors from the panel in order to communicate with them. The ZDU behaves like a detector in alarm so that the control panel continues to warn of the alarm and communicates with the detectors in order to obtain and display the addresses of those detectors in alarm.

Compatible with 800 Series detectors.

Specifications

- Dimension (H x L x W): 40 mm x 132 mm x 137 mm
- Weight: 170g
- Operating temperature: -10° to 50°C
- Storage temperature: -20° to 60°C
- Operating voltage range: 15 to 29 VDC
- Maximum average current: 100μA (without detection current)

Conventional Panel S300ZDU Conventional Detectors 800 Series

RMK400-IV Recess mounting kit - ivory

For suspended and drywall ceilings. For use with standard bases B401.

Not compatible with ECO1000

SMK400E Surface mounting kit - ivory

Provides for entry of surface wiring conduit. For use with standard bases B401.

Not compatible with ECO1000.

IBS-LIDW Base cover for B401 - ivory (pack of 10)

Pack of 10 pieces.
Conventional Detector Accessories

## WB-1AP-IV
**Wet base shroud - ivory**

Adapter base enclosure for humid environments. For use with standard bases B401 and B501AP-IV. Three mounting options are possible: surface mounting, cable mounting and pendant mounting. Not compatible with ECO1000.

## SFT2000
**Installation adaptor for suspended ceiling (pack of 10)**

The mounting adapter is used for the quick and secure attachment of bases of the NFXI, SD800 and ECO detector series to suspended ceiling systems. It saves the usage of special hollow cavity fasteners, since the mounting screws of the bases are screwed directly into the slots of the mounting adapter. The mounting adapter offers additional advantages in the fixing of the cables, rigid/flexible cable inlays and threaded cable connections. Pack of 10 pieces.

### Specifications

- **Material:** ABS

### Dimensions in mm:

![Diagram of dimensions]

## IRK-2E
**LED remote indicator, white**

The LED remote indicator has been designed for direct connection to all Notifier fire detectors. It provides a visual alarm indication of the room in which the detector is installed.

### Specifications

- **Dimensions (H x W x D):** 80 mm x 80 mm x 25 mm
- **IP rating:** IP40
- **Terminals:** Screw
- **Maximum wire section:** 1.5mm²
- **Operating temperature:** -10°C to +70°C
- **Voltage range:** 2.5 to 30 VDC
- **Maximum current:** 15mA
- **Weight:** 40g
- **Maximum cable size:** 2.5mm²

Note: Supply voltage must not exceed 3.5 VDC without limiting resistor. Above this, a serial resistor must be provided with no less than 40 Ohm per Volt (usually inside the detector).

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Detector Accessories

**IRK-2E-B**

**LED remote indicator with booster**

The IRK-2E-B includes an amplifier which allows the connexion of several LED remote indicators to a single detector. Surface mounted on the supplied mounting plate.

**IRK-E-SI**

**LED remote indicator, ivory**

Surface mounted with the supplied mounting plate. Led's will not blink in normal mode on intelligent systems!

**Specifications**

- Dimensions (H x W x D): 86 mm x 86 mm x 36 mm
- IP rating: IP40
- Operating temperature: -10°C to +70°C
- Voltage range: 2,5 to 30 VDC
- Maximum current: 25mA
- Maximum cable size: 1.5mm²

**IRK-W-624**

**LED technology remote indicator**

Surface mounted. LED blinks in normal mode on intelligent systems.

**Specifications**

- IP rating: IP55
- Voltage range: 6-24 VDC

**IRK-BOOST**

**IRK booster module**

Allows connection of multiple remote indicators (IRK-E-SI) to one Series 800 detector.
InnovairFLEX™

D2E

Duct detector housing

The duct detector samples air passing through a duct and gives dependable performance for shutdown of fans, blowers or airco systems, so preventing the spread of toxic smoke and fire gases through the protected area. The D2E housing is modular and can be mounted in square or rectangular configuration. The D2E contains a LED remote indicator output and a B401 base to be used with a Series 800 conventional detector. The conventional Series 800 smoke detector and the air inlet sampling tube must be ordered separately. (No Relay output available.)

Specifications

- **Power supply:** 12/24VDC
- **Operation range:** 8.5 to 35VDC
- **Dimensions (W x H x D):** 370 mm x 127 mm x 63.5 mm
- **Weight:** 820g
- **Operating temperature:** -20°C to +70°C
- **Relative humidity:** 0% to 95% (non-condensing)
- **Air velocity rating:** 0.5 m/s to 20 m/s
- **IP rating:** IP40

Air Inlet Tubes for InnovairFLEX™

D2E requires an inlet sampling tube as listed below.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter: 18 mm</td>
</tr>
<tr>
<td>Length:</td>
</tr>
<tr>
<td>DST-1: 30 cm</td>
</tr>
<tr>
<td>DST-1.5: 45.7 cm</td>
</tr>
<tr>
<td>DST-3: 91.6 cm</td>
</tr>
<tr>
<td>DST-5: 152 cm</td>
</tr>
<tr>
<td>DST-10: 325.5 cm</td>
</tr>
</tbody>
</table>

| DST-1 | Inlet sampling tube (30 cm) |
| DST-1.5 | Inlet sampling tube (45.7 cm) |
| DST-3 | Inlet sampling tube (91.6 cm) |
| DST-5 | Inlet sampling tube (152 cm) |
| DST-10 | Inlet sampling tube (325.5 cm) |
### Conventional Systems

#### Conventional Duct Detectors

#### Accessories for InnovairFLEX™

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTS151</td>
<td>Remote test station</td>
<td>Proof remote station for DNRE and D2E.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24VDC external power supply is required, according to EN54-4.</td>
</tr>
<tr>
<td>RTS151KEY</td>
<td>Remote test station with key</td>
<td>Proof remote station for DNRE and D2E with key.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24VDC external power supply is required, according to EN54-4.</td>
</tr>
<tr>
<td>RA100Z</td>
<td>Remote annunciator</td>
<td>Remote indicator with LED for DNRE and D2E.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item available on request only. Please check the last price list for lead time information.</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

Conventional Beam Detectors

6500R(S)

The 6500R and 6500RS are conventional reflector type linear optical beam smoke detectors designed to operate as a component of a conventional fire alarm system. It operates primarily on the principle of light obscuration utilising infra-red light. Optical beam smoke detectors are particularly appropriate for protecting buildings with large open spaces such as warehouses, atriums etc.

The 6500R and 6500RS detectors are combined transmitter/receiver units, which can be directly connected to a conventional zone and require a resetable 24VDC power supply. The Infra-Red transmitter generates a beam of light towards a high efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition.

Specifications

- Detector dimensions (W x H x D): 254 mm x 84 mm x 90 mm
- Reflector dimensions (W x H): 200 mm x 230 mm
- Weight: 1.77kg
- Operating temperature range: -30°C to +55°C
- IP rating: IP54
- Relative humidity: 0% to 95% (non-condensing)

CPD number: 0832-CPD-0323; VDS Approval number: G205034

For protective cages, see Protective Accessories, Part 6.

6500R

100M conv. reflective IR beam detector

Includes: Beam detector and short range reflector (5-70m) included.

Specifications

- Operating voltage range: 10.2 to 32VDC (24VDC Nominal)
- Standby current: 17mA
- Alarm current: 38.5mA

6500RS

100M conv. reflective IR beam detector with self test tool

Same as 6500R with servo motor test tool.

Requires 15V supply to operate Asuretest (remote test capability).

Specifications

- Operating voltage range: 15 to 32VDC (24VDC Nominal)
- Standby current: 17mA (in Test Mode: 500mA peak)
- Alarm current: 38.5mA

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

Beam Detector Accessories

### Conventional Beam Detector Accessories

<table>
<thead>
<tr>
<th><strong>BEAM-LRK</strong></th>
<th><strong>Long-range reflector kit (70m-100m)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Beam Detector Accessories" /></td>
<td>The BEAM-LRK kit contains 3 reflectors (200mm x 230mm). In combination with the short range reflector supplied with the beam, the 4 reflectors mounted in square form one big reflector surface which extends the beam range over 70m, up to a maximum distance of 100m.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BEAM-SMK</strong></th>
<th><strong>Surface mounting box</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Surface mounting box" /></td>
<td>Absolutely needed when using the mounting Bracket kit.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BEAM-MMK</strong></th>
<th><strong>Mounting bracket - swivel type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Mounting bracket - swivel type" /></td>
<td>Used for wall mount and ceiling mount applications. Must be used together with surface mounting box BEAM-SMK. (Beam not included.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BEAM-HK</strong></th>
<th><strong>Heater kit for beam detector</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Heater kit for beam detector" /></td>
<td>Avoid condensation problems in non heated rooms.</td>
</tr>
</tbody>
</table>

**Specifications**

- Voltage: 15 to 32V
- Current: 92mA max at 32V
- Power consumption:
  - nominal: 1.6W at 24V
  - maximum: 3W at 32V
Conventional Systems

Conventional Beam Detectors

BEAM-HKR

Heater kit for reflector

Avoid condensation problems in non heated rooms.

Specifications

- Voltage: 15 to 32V
- Current: 450mA max at 32V
- Power consumption: - nominal: 7.7W at 24V - maximum: 15W at 32V

FireRay® 50/100R Beam detectors

The FIRERAY® 50/100R series conventional infrared optical beam smoke detectors provide economical and effective protection of large, open plan spaces with high ceilings, particularly if access to ‘point type’ smoke detectors presents practical difficulties.

Optical beam smoke detectors are ideally suited for protecting warehouses, factories, atria, shopping malls, leisure centres, churches, museums, power stations and industrial plants.

The FIRERAY® 50/100R optical beam smoke detectors can be connected to a zone of a conventional fire alarm control panel, or interfaced to an intelligent system via an intelligent input module or a zone monitored module.

Specifications

- Operating range F50R: 5 to 50 Metres
- Operating range F100R: 50 to 100 Metres
- Operating voltage range: 10.2VDC to 30VDC
- Standby current: 17mA
- Weight: 0.67 kg
- IP rating: IP50
- Relative humidity: 0% to 93% (non-condensing)
- Approvals / Certification: Designed, manufactured and certified to EN54-12: 2002

CPD number: 0786-CPD-20045; VDS number: G203070

For protective cages, see Protective Accessories, Part 6.

FR-0206.09

FIRERAY 50R

Reflective infrared beam smoke detector, comprising transmitter / receiver unit and reflective prism. 50m range. Including test filter and 1x reflective prism.

FR-0206.10

FIRERAY 100R

Reflective infrared beam smoke detector, comprising transmitter / receiver unit and reflective prism. 100m range. Including test filter and 4x reflective prisms.

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
FireRay® 3000 End-to-End infrared optical beam smoke detector

The FIRERAY 3000 End to End infrared optical beam smoke detector has been designed using the latest optical technology, incorporating modern industrial electronics and software technology. This detector offers cost effective protection for large, open area spaces with high ceilings. It is also very suited to applications where access to ceiling mounted smoke detectors presents practical difficulties.

The FIRERAY 3000 is ideal for applications where line of sight for the IR (infra-red) detection path is narrow and where the building structure uses reflective surfaces. It has also been designed to be aesthetically pleasing and thus can equally suit modern architectural buildings as well as heritage sites, particularly where ornate ceilings exist.

The system comprises a modern looking transmitter head, which emits a narrow beam of infra-red light to an associated Receiver head, with a compact low level controller. Once smoke crosses through and thus obscures the IR beam path, the signal strength at the receiver drops below a preset level which in turn results in an alarm condition.

Both the detector heads, transmitter and receiver, have integrated alignment thumbwheels for ease of alignment. Using these thumbwheels provides a smooth and repeatable alignment process. The detector heads have up to 10° of adjustment in both planes. For further adjustment, a bespoke adjustment bracket is available, which offers up to 180° movement in both planes, as well as a full 360° rotation. The FIRERAY 3000 has been designed so that it can be installed by one operator, with its laser assisted alignment method combined with easy to use alignment LED’s offering a visual feedback. Integrated laser alignment aid can be activated at the controller or at the receiver head.

An optional feature is to power the transmitter from the controller by wiring directly, thus reducing the number of power supplies required.

The low level controller incorporates a LCD display, which offers a full icon-based, easy-to-use interface unit. This controller enables ease of commissioning, testing and maintenance of the beam detection system. During commissioning the detector sensitivity and fire thresholds can be selected, along with the user variable time to fire and time to fault settings.

The system is fully compliant with the requirements of RoHS and WEEE.

Specifications

- Operating voltage range: 12 to 36 VDC
- Operating temperature: -10°C to +55°C
- Relative humidity: 93% (non-condensing)
- IP rating: IP54
- Dimensions (W x H x D): Control unit: 203 mm x 124 mm x 71.5 mm Transmitter & receiver: 78 mm x 77 mm x 161 mm
- Weight: Control unit: 606g Transmitter & receiver: 207g
- Operating controller current: 14mA (constant) (with 1 or 2 receivers)
- Operating Transmitter current: 8mA (per transmitter)
- Power down reset time: >10 seconds
- Fire and Fault relay contacts: VFCO 2A @ 30VDC resistive
- Optical wavelength: 850nm
- Housing material: UL94 V2 PC
- Approved to: EN54-12

CPD number: 078-CPD-21162; VDS number: G212034

FR-3000-101

Fireray 3000 System

Kit containing: 1 transmitter (clear lens), 1 receiver (dark lens), 1 control unit, 1 test filter

Item available on request only. Please check the last price list for lead time information.

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
FireRay® 5000 Motorised infrared optical beam smoke detector

The FIRERAY® 5000 motorised reflective, auto aligning infrared optical beam smoke detector can be installed with up to two detector heads per system, thus saving on installation time and costs. In addition, each system controller houses two pairs of fire and fault relays, one per detector. This innovative system has been designed from the ground up to include pioneering technology that fully addresses the needs of the installer and user, both now and in the future.

With its industry leading optics, the FIRERAY® 5000 is ideally suited for the protection of large areas where the use of traditional detection technologies would prove to be too difficult and/or costly to install. The FIRERAY® 5000 combines an infrared transmitter and receiver in the same discrete unit and operates by projecting a well-defined beam to a reflective prism, which returns the beam to the receiver for analysis. Smoke in the beam path causes a drop in power, which, if below a pre-determined level, results in an alarm signal.

Specifications

- Operating voltage range: 14 to 28 VDC
- Operating temperature: -10°C to +55°C
- Storage temperature: -40°C to +85°C
- Relative humidity: 93% (non-condensing)
- IP rating: IP54
- System controller dimensions (W x H x D): 202 mm x 230 mm x 81 mm
- Operating current: 37mA max (2 detectors)
- Approved to: EN54-12

CPR number 0832-CPR-F0390; VDS number: G208017

For protective cages, see Protective Accessories, Part 6.

FR-5000-101

FIRERAY 5000 System (50m)

Kit containing: 1 x detector head, 1 x system controller and 1 x reflective prism.
Suitable for operation up to 50m.

Item available on request only. Please check the last price list for Lead time information.
Conventional Systems

Conventional Beam Detectors

FR-5000-102
FIRERAY 5000 System (100m)

Kit containing: 1 x detector head, 1 x system controller and 4 x reflective prisms.
Suitable for operation up to 100m.

Item available on request only. Please check the last price list for lead time information.

FR-5000-002
FIRERAY 5000 single detector

FIRERAY 5000 detector plus 1 x prism for use with the FIRERAY 5000 50m system.

Item available on request only. Please check the last price list for lead time information.

FR-5000-039
FIRERAY 5000 single detector

FIRERAY 5000 detector plus 4 x reflective prisms for use with the FIRERAY 5000 100m system.

Item available on request only. Please check the last price list for lead time information.

FR-5000-004
FIRERAY 5000 long range kit

Long range kit, comprising 3 x reflective prisms, for use with FIRERAY 5000 system to give 100m capability. Can mount to either the 5000-006 or 5000-007 prism plate.

Specifications
- Dimensions (W x D): 205 mm x 205 mm
- Weight: 255g

Item available on request only. Please check the last price list for lead time information.
Conventional Systems

FireRay accessories

Please note that the FireRay accessories are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
</table>
| FR-5000-005 | **Universal bracket**                           | • Dimensions (W x H x D): 134 mm x 71.5 mm x 134 mm  
              |                                                  | • Weight: 283g                                    |
| FR-5000-007 | **Four prism plate**                            | • Dimensions (W x H x D): 205 mm x 205 mm x 105 mm  
              |                                                  | • Weight: 255g                                    |
| FR-5000-008 | **Single prism plate**                          | • Dimensions (W x H x D): 134 mm x 134 mm x 105 mm  
              |                                                  | • Weight: 142g                                    |
| FR-5000-006 | **Prism mount plate**                           | • Dimensions (W x H x D): 284 mm x 211 mm x 12.7 mm |  
              |                                                  | • Weight: 567g                                    |

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

Conventional Beam Detectors

FR-23901.01  Reflective prism

FR-5000-014  Universal ceiling mount

Ceiling pendant mount for use with F5000, F50/100, prism and 5000-005 universal bracket. Includes universal mounting plate. Does not include universal mounting brackets or 5000 detectors. Ceiling pendant mount comes with a 1” x 12” long threaded nipple. Contractor shall provide other nipple lengths as required.

Specifications
- Dimensions (W x D): 216 mm x 216 mm
- Weight: 3.4kg

FR-0209  Obscuration filter

Only compatible with F50/100

FR-0608  F50/100 Back box

Surface mount back box for use with FIRERAY 50/100 reflective beam detectors.

Specifications
- Dimensions (W x H x D): 190 mm x 248 mm x 49 mm
- Weight: 1.58kg

FR-0893  F50/100 Surface mount alignment bracket

Surface mount alignment bracket for use with FIRERAY 50/100 reflective beam detectors and prism.

Specifications
- Tilt angle: 45°
- Dimensions (W x H x D): 190 mm x 130 mm x 30 mm
- Weight: 1.02kg

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

FR-5000-204

Anti-condensation heater for FR-5000 beam detector

Heater to prevent condensation on lenses. Only compatible with FR-5000 and F100, with or without alignment bracket. The design of the FR-5100-204 utilises forced air, which results in a circulating current of warm air maintaining the detector lens at an incrementally higher temperature than the surrounding air. The heater will reduce the likelihood of condensation forming on the lens which, in turn, reduces the potential for false alarms.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage:</td>
<td>24VAC/DC</td>
</tr>
<tr>
<td>Power consumption at 24V:</td>
<td>20W</td>
</tr>
<tr>
<td>Max. in-rush current:</td>
<td>3A</td>
</tr>
<tr>
<td>Steady-state current at 24V:</td>
<td>0.8A (typical)</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>-10°C to +45°C</td>
</tr>
<tr>
<td>Recommended fuse rating:</td>
<td>T2A</td>
</tr>
<tr>
<td>Connections:</td>
<td>4 leads (2 for heater &amp; 2 for fan)</td>
</tr>
<tr>
<td>Average temp. increase of lens above ambient:</td>
<td>10°C</td>
</tr>
<tr>
<td>Dimensions (W x H x D):</td>
<td>126 mm x 210 mm x 181 mm</td>
</tr>
</tbody>
</table>

FR-3000-204

Anti-condensation heater for FR-3000 beam detector

Heater to prevent condensation on lenses. Only compatible with FR-3000 (transmitter, receiver, universal bracket). The design of the FR-3000-204 utilises forced air, which results in a circulating current of warm air maintaining the detector lens at an incrementally higher temperature than the surrounding air. The heater will reduce the likelihood of condensation forming on the lens which, in turn, reduces the potential for false alarms.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage:</td>
<td>24VAC/DC</td>
</tr>
<tr>
<td>Power consumption at 24V:</td>
<td>20W</td>
</tr>
<tr>
<td>Max. in-rush current:</td>
<td>3A</td>
</tr>
<tr>
<td>Steady-state current at 24V:</td>
<td>0.8A (typical)</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>-10°C to +45°C</td>
</tr>
<tr>
<td>Recommended fuse rating:</td>
<td>T2A</td>
</tr>
<tr>
<td>Connections:</td>
<td>4 leads (2 for heater &amp; 2 for fan)</td>
</tr>
<tr>
<td>Average temp. increase of lens above ambient:</td>
<td>10°C</td>
</tr>
<tr>
<td>Dimensions (W x H x D):</td>
<td>86 mm x 126 mm x 198 mm</td>
</tr>
</tbody>
</table>

FR-5000-204

Anti-condensation heater for FR-5000 beam detector

Heater to prevent condensation on lenses. Only compatible with FR-5000 (receiver, universal bracket). The design of the FR-5000-204 utilises forced air, which results in a circulating current of warm air maintaining the detector lens at an incrementally higher temperature than the surrounding air. The heater will reduce the likelihood of condensation forming on the lens which, in turn, reduces the potential for false alarms.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage:</td>
<td>24VAC/DC</td>
</tr>
<tr>
<td>Power consumption at 24V:</td>
<td>20W</td>
</tr>
<tr>
<td>Max. in-rush current:</td>
<td>3A</td>
</tr>
<tr>
<td>Steady-state current at 24V:</td>
<td>0.8A (typical)</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>-10°C to +45°C</td>
</tr>
<tr>
<td>Recommended fuse rating:</td>
<td>T2A</td>
</tr>
<tr>
<td>Connections:</td>
<td>4 leads (2 for heater &amp; 2 for fan)</td>
</tr>
<tr>
<td>Average temp. increase of lens above ambient:</td>
<td>10°C</td>
</tr>
<tr>
<td>Dimensions (W x H x D):</td>
<td>128 mm x 146 mm x 189 mm</td>
</tr>
</tbody>
</table>
Conventional Beam Detectors

Anti-condensation prism heater

The heater pad is an efficient, ultra slim heating pad which is fixed behind the mounting plate. The FR-5000-205 increases the temperature of the prism through the mounting plate thus maintaining the reflector at a higher temperature than the surrounding air. This reduces the likelihood of condensation forming on the lens which, in turn, reduces the potential for false alarms.

Does not include the prisms.

Specifications

- Operating voltage: 24VAC/DC
- Power consumption at 24V: 20W
- Steady-state current at 24V: 0.8A (typical)
- Operating temperature: -10°C to +35°C
- Recommended fuse rating: 2A
- Connections: 2 x 500 mm PTFE flying leads
- Time taken to reach peak temperature: 30 min.
- Average temp. increase of lens above ambient: 10°C
- Dimensions (W x H x D): 284 mm x 38 mm x 284 mm

OSID beam smoke detector

The OSID system measures the level of smoke entering beams of light projected over an area of protection. A single OSID imager can detect up to 7 emitters to provide a wide coverage area. Two innovations in smoke detection technology have been developed for the revolutionary OSID smoke detector. By using advanced dual wavelength projected beams and optical imaging technology for early warning smoke detection, OSID provides a low-cost, reliable and easy-to-install solution that overcomes typical beam detection issues such as false alarm incidents and alignment difficulties.

This range is available on request only. Please check the last price list for Lead time information.

Specifications

- Supply voltage: 20 to 30VDC (24VDC nominal)
- Imager current consumption: Nominal @ 24VDC: 8mA (1 emitter); 10mA (7 emitters) Peak @ 24VDC (during training mode): 31mA
- Emitter current consumption: Wired version @ 24VDC: 350uA (Standard power); 800uA (High power)
- Dimensions (Emitter / Imager): 198 mm x 130 mm x 96 mm

CPD number: 0333-CPD-075387

OSI-10 OSID Imager, 7° coverage, 24VDC

OSI-45 OSID Imager, 38° coverage, 24VDC

OSI-90 OSID Imager, 80° coverage, 24VDC

OSE-SP-01 OSID Emitter, Standard power, battery version

OSE-SPW OSID Emitter, Standard power, wired at 24VDC

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
## Conventional Systems

**OSE-HPW**
OSID Emitter, High power, wired at 24VDC

---

### OSID beam detector accessories

<table>
<thead>
<tr>
<th>OSID-INST</th>
<th>Installation kit for OSID beam detectors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kit containing:</td>
</tr>
<tr>
<td></td>
<td>- Laser alignment tool (OSP-002)</td>
</tr>
<tr>
<td></td>
<td>- Test filter</td>
</tr>
<tr>
<td></td>
<td>- PC cable</td>
</tr>
<tr>
<td></td>
<td>- Cleaning cloth</td>
</tr>
<tr>
<td></td>
<td>- Manual</td>
</tr>
</tbody>
</table>

| OSP-001   | FTDI cable 1.5m for OSID beam detectors  |
| OSP-002   | Laser alignment tool for OSID beam detectors |
| OSI-EHI   | Environmental housing (IP66) for OSID Imager |
| OSI-EHE   | Environmental housing (IP66) for OSID Emitter |
For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)

Conventional Systems

Conventional manual call points & switches

**Indoor (IP24) red colour MCP**

The MCP1A range are Manual Call Points (MCP), both with a 470 Ohm resistor and normally open contact, complete with glass. The MCP1A-R470FG-01 is designed for flush mounting. The call points are designed to provide a manual alarm interface to conventional fire alarm control panels. Both are supplied in the standard red colour.

- Unique ‘Plug & Play’ installation concept
- Re-settable operating element option
- Resistive and clean contact connections
- Semi-flush or surface mounting
- Approved to EN54-11
- Backward compatibility
- Enhanced aesthetics

The red conventional call points contain:
- Operating element label: EN54-11 “Dot & Arrows”
- Function label: Burning House

For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

### Specifications

<table>
<thead>
<tr>
<th>Dimension (W x H x D):</th>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-flush: 89 mm x 93 mm x 27.5 mm</td>
<td>Semi-flush: 110g</td>
</tr>
<tr>
<td>Surface mounting: 89 mm x 93 mm x 59.5 mm</td>
<td>Surface: 160g</td>
</tr>
</tbody>
</table>

- Operating Temperature Range: -10°C to +55°C
- Operating tension: 24VDC Nominal

The series red MCP is LPCB approved EN54-11

---

**MCP1A-R470FG-01**

MCP flush with break glass element

2 outputs: Normally open (max. 30VDC/2A) + monitoring resistor 470R.

**CPD number:** 0832-CPD-0642

---

**MCP1A-R470FF-01**

MCP flush with flexible element

As MCP1A-R470FG-01, but with flexible element.

---

**MCP2A-R470FG-01**

MCP flush with break glass element & LED

2 outputs: normally open (max. 30VDC/2A) + monitoring resistor 470R.

**CPD number:** 0832-CPD-0644

---

**MCP2A-R470FF-01**

MCP flush with flexible element & LED

As MCP2A-R470FG-01, but with flexible element.
## Manual Call Points & Switches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCP3A-R000FG-01</td>
<td>MCP flush with break glass element with changeover contacts</td>
<td>With changeover contacts (max. 30VDC/2A).</td>
</tr>
<tr>
<td>MCP3A-R000FF-01</td>
<td>MCP flush with flexible element with changeover contacts</td>
<td>As MCP3A-R000FG-01, but with flexible element.</td>
</tr>
<tr>
<td>MCP4A-R000FG-01</td>
<td>MCP flush with break glass element</td>
<td>With double pole changeover contacts (max. 30VDC/2A).</td>
</tr>
<tr>
<td>MCP4A-R000FF-01</td>
<td>MCP flush with flexible element</td>
<td>As MCP4A-R000FG-01, but with flexible element.</td>
</tr>
</tbody>
</table>

### Indoor (IP24) MCP Other colours

The conventional call points in other colors contain:
- Operating element label: EN54-11 'dot & arrows'
- Function label: Plain color

For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

Please replace “x” in the part no. by the code for the needed color: Y = yellow (RAL1006); G = green (RAL6016); B = blue (RAL5002); W = white (9010)

Items available on request only. Please check the last price list for Lead Time information.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCP3A-x000FG-11</td>
<td>MCP flush with break glass element</td>
<td>With changeover contacts (max. 30VDC).</td>
</tr>
<tr>
<td>MCP3A-x000FF-11</td>
<td>MCP flush with flexible element</td>
<td>As MCP3A-x000FG-11 but with flexible element.</td>
</tr>
<tr>
<td>MCP4A-x000FG-11</td>
<td>MCP flush with break glass element</td>
<td>With double pole changeover contacts (max. 30VDC).</td>
</tr>
<tr>
<td>MCP4A-x000FF-11</td>
<td>MCP flush with flexible element</td>
<td>As MCP4A-x000FG-11 but with flexible element.</td>
</tr>
</tbody>
</table>
Security range, triple pole MCP

### M8A-G000SF

**M8 Triple pole call point, green, surface mount with plexi**

Includes three change-over outputs to switch three separate circuits.

**Specifications:**
- Maximum operating voltage: 30VDC
- Maximum current: 2A
- IP rating: IP24D
- Operating temperature: -30°C to +70°C
- Weight: 180g
- Dimensions (W x H x D): 89 mm x 93 mm x 59.5 mm
- Colour: Green, RAL6016

Contains:
- Triple pole call point, including back box
- 2 Function markings:
- Installation pack

Item available on request only. Please check the last price list for lead time information.

Water resistant (IP67), red coloured MCP

**Specifications:**
- Operating Temperature Range: -30°C to +70°C
- Weight: 270g
- Dimensions (W x H x D): 97.5 mm x 93 mm x 65.5 mm

The red call M700WCP call points contain:
- Operating element label: EN54-11 “Dot & Arrows”
- Function label: Burning House

For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

### WCP3A-R000SG-01

**IP67 MCP surface with break glass element**

With single pole changeover (max. 30VDC/2A). Includes surface mounting box.

**CPD number:** 0832-CPD-0659

### WCP3A-R000SF-01

**IP67 MCP surface with flexible element**

As WCP3A-R000SG-11, but with flexible element.

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

Manual Call Points & Switches

WCP1A-R470SG-01  IP67 MCP surface with break glass element

2 outputs: normally open (max. 30VDC/2A) + monitoring resistor 470R. Includes surface mounting box.

**CPD number: 0832-CPD-0654**

WCP1A-R470SF-01  IP67 MCP surface with flexible element

As WCP1A-R000SG-11, but with flexible element.

**Water resistant (IP67), MCP other colours**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCP3A-x000SG-11</td>
<td>IP67 MCP surface with break glass element</td>
</tr>
<tr>
<td></td>
<td>With single pole changeover (max. 30VDC/2A). Includes surface mounting box.</td>
</tr>
<tr>
<td>WCP3A-x000SF-11</td>
<td>IP67 MCP surface with flexible element</td>
</tr>
<tr>
<td></td>
<td>As WCP3A-x000SG-11 but with flexible element.</td>
</tr>
<tr>
<td>WCP1A-x470SG-11</td>
<td>MCP surface with break glass element</td>
</tr>
<tr>
<td></td>
<td>2 outputs: normally open (max. 30VDC/2A) + monitoring resistor 470R. Includes surface mounting box.</td>
</tr>
<tr>
<td>WCP1A-x470SF-11</td>
<td>MCP surface with flexible element</td>
</tr>
<tr>
<td></td>
<td>As WCP1A-x470SG-11 but with flexible element.</td>
</tr>
</tbody>
</table>
Conventional Systems

MCP Accessories

PS200  Transparent protective hinged cover

Specifications
- Weight: 37g

Please note that the below items are available on request only. Please check the last price list for lead time information.

SC071  Terminal blocks (pack of 20)

Pack of 20 pieces.

KL1 X 5  Earth continuity links (pack of 5)

Pack of 5 pieces.

BZR2  Red bezel for flush installation

PTR  Semi flush tray for MCP

Key switches single pole (K**SxS range)

The keyswitches contain function label: Plain color
For other labels, please order the specific foil separately
(See §. Foil with labels for Call Points & Switches)
All the keyswitches (K**SxS range) are surface mount.
They replace the Wx9100 series.

Please replace “x” in the part n° by the code for the needed color:
R = red; Y = yellow; G = green; B = blue; W = white

Specifications:
- Maximum voltage range: 250VAC @ 50Hz
- Current rating: 2A @ 250VAC
- Operating Temperature Range: -20°C to +55°C
- Dimensions (W x H x D): 87 mm x 87 mm x 52 mm
- IP rating: IP24
- Colour: Red, Yellow, Green, Blue or White
- Material: ABS

Items available on request only. Please check the last price list for lead time information.
### Conventional Systems

**Manual Call Points & Switches**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>K20SxS-01</td>
<td>Key switch, single pole, 2 positions (key removable in both positions)</td>
<td>for W9101 and W904.</td>
</tr>
<tr>
<td>K21SxS-01</td>
<td>Key switch, single pole, 2 positions (key captive in one position)</td>
<td>for W9102.</td>
</tr>
<tr>
<td>K30SxS-01</td>
<td>Key switch, single pole, 3 positions (key removable in all positions)</td>
<td>for W9103.</td>
</tr>
</tbody>
</table>

**Manual Call Points & Switches**

The rocker switches contain:
- Function label: Plain color
For other labels, please order the specific foil separately (See § Foil with labels for Call Points & Switches)
All the rocker switches (Wx920x range) are flush mount.

**Specifications:**
- Maximum voltage range: 240VAC or 24VDC
- Current rating: 2A @ 240VAC; 6A @ 24VDC
- Operating Temperature Range: -20°C to +70°C
- Relative humidity: 0-95% (non-condensing)
- IP rating: IP24D
- Colour: Red, Yellow, Green, Blue or White
- Material: ABS

Items available on request only. Please check the last price list for lead time information.

**Wx9201 Rocker switch 2 positions**

Double pole changeover contact.

**Wx9202 Rocker switch double pole ON/OFF**

With 220VAC red neon indicator.

**Wx9203 Rocker switch 3 positions**

With two sets of three contacts.
Conventional Systems

Manual Call Points & Switches

Miniature push switches

The miniature push switches contain:
- Function label: Plain color
For other labels, please order the specific foil separately
(See §. Foil with labels for Call Points & Switches)
All the miniature push switches (Wx930x range) are Flush mount.

Please replace “x” in the part n° by the code for the needed color: R = red; Y = yellow; G = green; B = blue; W = white

Specifications:
- Maximum voltage range: 240VAC or 24VDC
- Current rating: 0.5A @ 240VAC; 1A @ 24VDC
- Operating Temperature Range: -25°C to +55°C
- Relative humidity: 0-95% (non-condensing)
- IP rating: IP24D
- Colour: Red, Yellow, Green, Blue or White
- Material: ABS

Wx9301 Miniature switch momentary action, non terminated
Wx9302 Miniature switch momentary action, terminated
Wx9303 Miniature switch latching, non terminated
Wx9304 Miniature switch latching, terminated

Push switches

The push switches contain:
- Function label: Plain color
For other labels, please order the specific foil separately
(See §. Foil with labels for Call Points & Switches)
All the push switches (Wx940x range) are Flush mount.

Please replace “x” in the part n° by the code for the needed color: R = red; Y = yellow; G = green; B = blue; W = white

Specifications:
- Maximum voltage range: 240VAC or 24VDC
- Current rating: 6A @ 240VAC / 24VDC
- Operating Temperature Range: -25°C to +55°C
- Relative humidity: 0-95% (non-condensing)
- IP rating: IP24D
- Colour: Red, Yellow, Green, Blue or White
- Material: ABS

Wx9403-11 Switch single pole, momentary action
Wx9402 Switch 2 positions

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
## Conventional Manual Call Point & Switches Accessories

### Surface Mounting boxes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR0T</td>
<td>Surface mounting box red</td>
</tr>
<tr>
<td>Sx0T</td>
<td>Surface mounting box other color</td>
</tr>
</tbody>
</table>

### Foil with labels for Call Points & Switches

- Please replace "x" in the part n” by the code for the needed colour:
  - Y = yellow; G = green; B = blue; W = white

#### Specifications:
- Dimensions (W x H x D): 87 mm x 87 mm x 32 mm

Please see the images of the labels on the next page.

- Each foil contains 48 labels.

- The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCP-LABEL F 028</td>
<td>Foil with 48 ‘ALARME INCENDIE’ labels (black on red)</td>
</tr>
<tr>
<td>MCP-LABEL F 048</td>
<td>Foil with 48 ‘KOEPEL COUPOLE’ labels (white on red)</td>
</tr>
<tr>
<td>MCP-LABEL F 056</td>
<td>Foil with 48 ‘BRAND FEU’ labels (black on yellow)</td>
</tr>
<tr>
<td>MCP-LABEL F 071</td>
<td>Foil with 48 ‘EMERGENCY STOP’ labels (black on yellow)</td>
</tr>
<tr>
<td>MCP-LABEL F 078</td>
<td>Foil with 48 ‘EVACUATION’ labels (black on red)</td>
</tr>
<tr>
<td>MCP-LABEL F 081</td>
<td>Foil with 48 ‘FEU’ labels (black on yellow)</td>
</tr>
<tr>
<td>MCP-LABEL F 082</td>
<td>Foil with 48 ‘BLUSKNOP’ labels (black on yellow)</td>
</tr>
<tr>
<td>MCP-LABEL F 138</td>
<td>Foil with 48 ‘ALERTE INCENDIE’ labels (black on red)</td>
</tr>
<tr>
<td>MCP-LABEL F 217</td>
<td>Foil with 48 ‘EXTINCTION’ labels (black on yellow)</td>
</tr>
<tr>
<td>MCP-LABEL F 218</td>
<td>Foil with 48 ‘RUNNING MAN’ labels (white on green)</td>
</tr>
<tr>
<td>MCP-LABEL F 220</td>
<td>Foil with 48 ‘BIJ NOOD DEUR OPEN’ labels (white on blue)</td>
</tr>
<tr>
<td>MCP-LABEL F 222</td>
<td>Foil with 48 ‘EN54 BURNING HOUSE’ labels (white on red)</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

**Manual Call Points & switches**

| MCP-LABEL F 228 | Foil with 48 ‘DEUR ONGRENDLING’ labels (white on blue) |
| MCP-LABEL F 235 | Foil with 48 ‘ALERTE WAARSCHUWING’ labels (black on red) |
| MCP-LABEL F 244 | Foil with 48 ‘UITSTEL BLUSSING’ labels (white on blue) |

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Audio & Visual Devices - ENscape series

Sounders

The conventional ENscape sounder is a high quality device designed to alert building occupants of an emergency. The product features a new folded horn design which provides outstanding sound output at low current draw. With its modern design, global tone set and extensive installer-friendly features, the ENscape sounder is the logical choice for specifiers, installers and distributors.

- Simple, fast & flexible installation
- Suitable for wall and ceiling mount
- 32 tones, including a bell tone
- Two stage sounders enable alert and alarm sequences to be set for phased evacuation
- Synchronised sounder output
- Approved to EN54-3

Includes (low profile or deep) base, see product description.

Specifications

- Dimensions (Ø x H): 100 mm x 77 mm (low profile base) 100 mm x 102 mm (deep base)
- Weight: 190g (low profile base); 197g (deep base)
- Operating Voltage Range: 9-29VDC
- Current: 31mA at 29 VDC (Tone 8)
- Max. sound output: 107dB (A) @ 1m (Tone 23)
- Number of tones: 32, including a bell tone
- Approved to: EN54-3

CPR number: 0832-CPR-F0254; VDS number: G215015

CWSO-RR-S1  EN Sounder, red, 32 tones, max. 107dB, incl. low profile base
CWSO-WW-S1  EN Sounder, white, 32 tones, max. 107dB, incl. low profile base
CWSO-RR-W1  EN Sounder, red, 32 tones, max. 107dB, incl. deep base (IP65)
CWSO-WW-W1  EN Sounder, white, 32 tones, max. 107dB, incl. deep base (IP65)

Strobes

The conventional beacons feature high output LEDs, advanced optics and an innovative lens design, providing outstanding Omni-directional light coverage at low current draw. Specifically designed for, and approved to meet EN54-23, the ENscape beacon delivers outstanding quality, reliability and long operational life.

Includes (low profile or deep) base, see product description.

Specifications

- Dimensions (Ø x H): 100 mm x 72 mm (low profile base) 100 mm x 97 mm (deep base)
- Weight: 164g (low profile base); 171g (deep base)
- Operating Voltage Range: 9-29VDC
- Current: 26mA at 29 VDC
- Flashing frequency: 0.5Hz
- Approved to: EN54-23 C & W categories

CPR number: 0832-CPR-F0257; VDS number: G215016
Conventional Systems

Audio & Visual Devices

Sounder-strobes

The conventional sounder beacon is ideal for applications where a dual purpose audible and visual alarm device is required. The product features a new folded horn design, high output LEDs, advanced optics and an innovative lens design, providing outstanding sound output and omnidirectional light coverage at low current draw. Specifically designed and approved to meet both EN54-3 and EN54-23, the ENscape sounder beacon delivers outstanding quality, reliability and extended operational life.

Includes (low profile or deep) base, see product description.

Specifications

- Simple, fast & flexible installation
- Suitable for wall and ceiling mount
- 32 tones, including a bell tone
- Advanced optics ensure superior light coverage
- Synchronised flash exceeds EN54-23 standard
- Approved to EN54-3 (sounder) and EN54-23, C & W categories (strobe)

EN54-23 C, W Class

CPR number: 0832-CPR-F0262; VDS number: G215013

CWSS-RW-S5  EN Sounder/Strobe with red low profile base & white LED
CWSS-WW-S5  EN Sounder/Strobe with white low profile base & white LED
CWSS-RR-S5  EN Sounder/Strobe with red low profile base & white LED
CWSS-WR-S5  EN Sounder/Strobe with white low profile base & red LED

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
Conventional Systems

110 For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)

Honeywell | Fire Safety         Benelux region         Catalogue version 2.1

Audio & Visual Devices

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWSS-RW-W5</td>
<td>EN Sounder/Strobe with red deep base &amp; white LED (IP65)</td>
</tr>
<tr>
<td>CWSS-WW-W5</td>
<td>EN Sounder/Strobe with white deep base &amp; white LED (IP65)</td>
</tr>
<tr>
<td>CWSS-RR-W5</td>
<td>EN Sounder/Strobe with red deep base &amp; red LED (IP65)</td>
</tr>
<tr>
<td>CWSS-WR-W5</td>
<td>EN Sounder/Strobe with white deep base &amp; red LED (IP65)</td>
</tr>
</tbody>
</table>

**EN54-23 Open Class**

CPR number: 0832-CPR-F0259; VDS number: G215014

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWSS-RR-S3</td>
<td>EN Sounder/Strobe with red low profile base &amp; red LED</td>
</tr>
<tr>
<td>CWSS-WR-S3</td>
<td>EN Sounder/Strobe with white low profile base &amp; red LED</td>
</tr>
<tr>
<td>CWSS-RR-W3</td>
<td>EN Sounder/Strobe with red deep base &amp; red LED (IP65)</td>
</tr>
<tr>
<td>CWSS-WR-W3</td>
<td>EN Sounder/Strobe with white deep base &amp; red LED (IP65)</td>
</tr>
</tbody>
</table>

**ENscape accessories**

The below items are shipped per 5 pieces

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSR</td>
<td>Low profile base, red, pack of 5</td>
</tr>
<tr>
<td>CSW</td>
<td>Low profile base, white, pack of 5</td>
</tr>
<tr>
<td>CWR</td>
<td>Deep IP65 base, red, pack of 5</td>
</tr>
<tr>
<td>CWW</td>
<td>Deep IP65 base, white, pack of 5</td>
</tr>
<tr>
<td>PS188</td>
<td>Deep base O-ring, pack of 5</td>
</tr>
<tr>
<td>PS189</td>
<td>Deep base gasket, pack of 5</td>
</tr>
<tr>
<td>SC076</td>
<td>Earther strap, pack of 5</td>
</tr>
</tbody>
</table>
## Conventional Systems

### Audio & Visual Devices

### Base Sounder

Item available on request only. Please check the last price list for Lead time information.

**NBS4**  
**Standard base sounder (4 TONES)**

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Ø x h):</td>
<td>117 mm x 30 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>180g</td>
</tr>
<tr>
<td>Operating temperature range:</td>
<td>-30°C to +70°C</td>
</tr>
<tr>
<td>Operating voltage:</td>
<td>9-33VDC</td>
</tr>
<tr>
<td>Current:</td>
<td>12mA at 24VDC (800Hz continuous, high volume)</td>
</tr>
<tr>
<td>Cable section:</td>
<td>2.5mm²</td>
</tr>
<tr>
<td>Compatible with:</td>
<td>ECO series</td>
</tr>
</tbody>
</table>

VdS number: G211048; CPD number: 0832-CPD-0393

**NBSLID/W**  
**DBS white front LID-Pack of 10**

Pack of 10 pieces.

**NBSLID/R**  
**DBS white front LID-Pack of 10**

Pack of 10 pieces.

For spare parts, please refer to § Spare Parts at the end of this chapter (02. Conventional Systems)
## Spare parts

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Spare part for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-745-008</td>
<td>Spare installation kit. Includes 8 capacitive end of lines, battery leads, Allen key, panel controls key and sounder end of line resistors.</td>
<td>NFS2-8</td>
</tr>
<tr>
<td>020-817</td>
<td>Spare text insert labels R1, Dutch, French, English, German, Swedish and Danish slide in labels.</td>
<td>NFS2-8</td>
</tr>
<tr>
<td>020-823</td>
<td>Spare Allen key 4mm right angle</td>
<td>NFS2-8</td>
</tr>
<tr>
<td>020-849</td>
<td>Two zone replacement PCB</td>
<td>NFS2-8</td>
</tr>
<tr>
<td>020-850</td>
<td>Four zone replacement PCB</td>
<td>NFS4-8</td>
</tr>
<tr>
<td>020-851</td>
<td>Eight zone replacement PCB</td>
<td>NFS8-8</td>
</tr>
<tr>
<td>020-852</td>
<td>Replacement power supply baseboard for NFS panel range</td>
<td>NFS2-8</td>
</tr>
<tr>
<td>020-865</td>
<td>Pack of 10 spare red keys</td>
<td>NFS2-8</td>
</tr>
<tr>
<td>C 690</td>
<td>Spare key for key switches 2 positions rainproof unit</td>
<td>Switches</td>
</tr>
<tr>
<td>MUS 156</td>
<td>Spare EN54 breakglass for all KAC call points (pack of 10)</td>
<td>Conventional call points</td>
</tr>
<tr>
<td>PS230</td>
<td>Spare EN54 flexible operating elements for MCP call points (pack of 10)</td>
<td>Conventional call points</td>
</tr>
<tr>
<td>SC011</td>
<td>Screws for MCP call points (pack of 100)</td>
<td>Conventional call points</td>
</tr>
<tr>
<td>SC070</td>
<td>Pack of 10 spare test keys</td>
<td>Conventional call points</td>
</tr>
<tr>
<td>SC071</td>
<td>Pack of 20 terminal blocks</td>
<td>Conventional call points</td>
</tr>
<tr>
<td>SC080</td>
<td>Spare key for key switches 3 positions (pack of 6, replacement for C 273)</td>
<td>Switches</td>
</tr>
<tr>
<td>SC086</td>
<td>Spare key for keyswitch 2 positions, K2xD range (pack of 6; replacement for C 787)</td>
<td>K2xD range</td>
</tr>
<tr>
<td>SC087</td>
<td>Spare key for keyswitch 3 positions, K2xD range (pack of 6; replacement for C 788)</td>
<td>K2xD range</td>
</tr>
<tr>
<td>WF1-EN54</td>
<td>Spare EN54 flexible operating element for W call points</td>
<td>W call points</td>
</tr>
</tbody>
</table>
Extinguishing Systems

NOTIFIER®
by Honeywell
Extinguishing Systems

Notes
RP1R-Supra

Extinguishing control panel with display

The RP1r-Supra control panel has been designed to efficiently manage the automatic release sequence of any extinguishing system of gas, CO2 (according EN12094:1/2003 requirements), foam, dust, aerosol or sprinklers.

The RP1r-Supra compact control panel includes: a switched 65W power supply with battery charger; three input zones to connect directly to two-wire conventional detectors and external release call point; two release monitored and electronically protected output circuits and two sounder outputs with different frequencies to identify each of the extinguishing stages (preactivated mode, activated mode, hold/abort and release). The front panel includes system status leds, a 2-digit countdown timer, a GAS sign and a keyswitch for operating mode selection: automatic, manual or disabled.

There are inputs circuits for low and flow pressure monitoring, open door control; hold and release abort call points and status relays (general fault, extinguishing release activated, preactivation, extinguishing release in progress, extinguishing release cancelled, manual mode, automatic mode).

RP1r-Supra also includes two RS232 interfaces, an USB interface and an I2C which allow a visualization of the history log of connection of a relay card.

Specifications

- Power supply: 110/230VAC; 50/60Hz.
- Quiescent current: 125mA max.
- Total max. current: 2.4A
- Batteries: 2 x 7Ah.
- Load max. current: 300mA
- Battery fuse: F4L 250V (4A)
- Outputs:
  - 2 monitored sounder outputs: 2 x 250mA
  - 2 aux. power supply outputs: 2 x 250mA (resettable and non-resettable)
- 2 release circuits: 1A max. each circuit
- Operating temperature: from -5°C to +40°C
- Relative humidity: 95% max. (non-condensing)
- Environmental classification: Class A
- IP rating: IP30
- Dimensions (W x H x D): 381 mm x 353 mm x 123 mm
- Weight: 4 kg (without batteries)

CPR number: 1134-CPR-045
BOSEC: Included in the EN54-13 system certificate
NF50: B-9057-FD-879c (MCX-55);
NF3000: B-9057-FD-878c (MCX-55)
Extinguishing Systems

VSN-4REL

4 Relay board

Necessary to comply with EN12094:1/2003 (Option 4.26).

Specifications

- Weight: 200g
- Dimensions (H x W x D): 357 mm x 382 mm x 94 mm
- Operating temperature: -5°C to +45°C
- Relative humidity: 5% to 95% (non-condensing)
- Contact: 2A/30VDC

ITAC

Interface module RP1r

Communication card to transmit the information of the extinguishing control panel to the intelligent NF30/50 or NF3000.

Specifications

- Dimensions (H x W x D): 50 mm x 125 mm x 40 mm

VSN-232

RS 232 serial interface

Specifications

- Weight: 113g

RACK-SUPRA

19” Rack mounting kit for RP1r-Supra

For rack mounting of RP1r-Supra. Made in black lake iron of 8U height.

Specifications

- Dimensions (H x W x D): 355 mm x 480 mm x 125 mm

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)
### Manual Control Units

#### ECP-804900
**Manual release call point - class B**

<table>
<thead>
<tr>
<th>Includes: yellow housing, key for reset and enclosure opening..EN12094-3 compliant.Labels in Dutch, French, English and German.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specifications</strong></td>
</tr>
<tr>
<td>- Operating voltage:</td>
</tr>
<tr>
<td>- Connection terminal:</td>
</tr>
<tr>
<td>- Operating temperature:</td>
</tr>
<tr>
<td>- IP rating:</td>
</tr>
<tr>
<td>- Housing:</td>
</tr>
<tr>
<td>- Weight:</td>
</tr>
<tr>
<td>- Dimensions (H x W x D):</td>
</tr>
<tr>
<td><strong>CPD number:</strong></td>
</tr>
</tbody>
</table>

#### ECP-804902
**Electric stop push button - class B**

<table>
<thead>
<tr>
<th>Includes: blue housing, key for reset and enclosure opening.EN12094-3 compliant.Labels in Dutch, French, English and German.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specifications</strong></td>
</tr>
<tr>
<td>- Operating voltage:</td>
</tr>
<tr>
<td>- Connection terminal:</td>
</tr>
<tr>
<td>- Operating temperature:</td>
</tr>
<tr>
<td>- IP rating:</td>
</tr>
<tr>
<td>- Housing:</td>
</tr>
<tr>
<td>- Weight:</td>
</tr>
<tr>
<td>- Dimensions:</td>
</tr>
<tr>
<td><strong>CPD number:</strong></td>
</tr>
</tbody>
</table>

#### ESS-704917
**IP55 kit for ECP call points**

- Pack of 10 pieces
# Extinguishing Systems

## Manual Control Units

### PUL-D/EXT Manual release call point

Yellow, resettable, manual release call point with included protective cover. For surface mount. For indoor use only. Includes surface mounting box, protective cover and key for reset. Labels included in Dutch, French, English and Spanish.

*Item available on request only. Please check the last price list for Lead time information.*

**Specifications**

- Supply voltage: 24VDC
- Operating temperature: -10°C to 50°C
- Storage temperature: -10°C to 50°C
- Relative humidity: max. 95% (non-condensing)
- Dimensions: 89 x 89 x 52 mm

**CPD number:** 1035-CPD-ES044861-2

### PUL-P/EXT Manual stop push button

Blue, resettable, manual stop push button with included protective cover. For surface mount. For indoor use only. Includes surface mounting box, protective cover and key for reset. Labels included in Dutch, French, English and Spanish.

*Item available on request only. Please check the last price list for Lead time information.*

**Specifications**

- Supply voltage: 24VDC
- Operating temperature: -10°C to 50°C
- Storage temperature: -10°C to 50°C
- Relative humidity: max. 95% (non-condensing)
- Dimensions: 89 x 89 x 52 mm

**CPD number:** 1035-CPD-ES044861-2

---

*For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)*
Extinguishing Systems

Sprinkler Panels

NF3000/SMC series

TheNotifier NF3000/SMC sprinkler panels offer a wide range of features and functions while being very easy to install, program and operate. The panel is CPD approved to EN54-2 and 4 and the Dutch installation standard NEN-EN 12845:2011 and NEN1073. A full range of advanced input and output modules, fire detectors, LED boards, sprinkler repeaters, mimic drivers and other peripherals allow you to obtain a flexible sprinkler alarm system. By default, the modular sprinkler panel is equipped with 2 loops, with a capacity of 99 modules (and 99 detectors) per loop and can be extended by 2 loops to a maximum of 8 loops. The NF3000/SMC sprinkler panel can be connected to a ID²NET peer to peer network, so that the panels operate as one system in large applications. Up to 32 network addresses can be recorded in a ID²NET network. In addition to the LED indicators, a graphic LCD display (240 x 64 pixels), ensures clear messages.

Specifications

- Operating voltage: 230V, 50Hz (fused at 5A)
- Sounder outputs: 2 sounder outputs 1A each
- Siren / voltage free outputs: 2 Sounders / voltage free outputs, 30V at 1A
- Relay outputs: Fire Relay, 30V at 1A
- Auxiliary output: 2 auxiliary outputs 26-28V at 1A each
- Total Auxiliary output: Total sounders and auxiliary power depends on the selected power supply (reference: PSU specifications)
- Battery space: Can hold 2 batteries up to 45Ah.
- Dimensions (H x W x D): 12U: 612mm x 600mm x 372.5mm 21U: 1012mm x 600mm x 372.5mm
- Weight: 12U: approx 42.4 kg 21U: approx 58 kg

NF3000/64 SMC-V2-12U

Intelligent sprinkler panel 64 zones, 12U (dutch text)

Includes 64 zones. Each zone can be configured as alarm (red) or technical supervision (yellow). Size: 12U. Includes RS485 interface (020-479).

NF3000/128 SMC-V2-21U

Intelligent sprinkler panel 128 zones, 21U (dutch text)

Includes 128 zones. Each zone can be configured as alarm (red) or technical supervision (yellow). Size: 21U. Includes RS485 interface (020-479).

Peripheral devices

Please note that a specific training is required for the installation of the below items.

020-479

NF3000 Isolated RS485 module kit

Includes PCB for isolated RS485 port for peripherals such as repeaters. Uses 1 panel COM port. Already included in the sprinkler panel.
**Peripheral Devices**

**020-573**  **IDR-M MIMIC Control pca kit**

Mimic control PCA Kit. Supports up to 8 Mimic Drivers. Requires external 24Vdc Power source. Requires minimum one 020-574. For use with "network zones".

**020-742**  **IDR-CME MIMIC Expansion board kit**

Provides 16 LED's or relays outputs. Up to 9 expansion boards can be daisy chained. Requires 020-741 IDR-CM Mimic main board. For use with "local zones".

**002-452-002**  **IDR6-A active repeater for NF3000/SMC panels**

Includes status indication leds and text insert label kit.

**Specifications**

- **Dimensions (W x H x D):** 255 mm x 165 mm x 55 mm

**020-741**  **IDR-CM Compact MIMIC main board kit**

Compatible with NF30/50 and NF3000 Panels. 16 outputs on board and up to 9 expansion boards (020-742) can be added (drive led's or relays), giving max. of 160 outputs. 5 led outputs (Power ok, Test, Gen. Fault, Disablement & Fire) and 6 inputs (Key switch, Evacuate, Mute buzzer, Silence sounders Lamp test & Reset). Requires ext. 24Vdc Power source. For use with "local zones".

**020-574**  **IDR-MD MIMIC Driver and terminal board**

Mimic Driver and terminal board PCA Kit. Provides 64 LED'S or relays outputs and 8 inputs. Up to 8 Mimic Drivers can be daisy chained. Requires Mimic Control PCA Kit and external 24Vdc Power source. For use with "network zones".
Extinguishing Systems

Sprinkler Panels

Pearl/SMC (Availability will be announced)

PRL-BNL-SMC 64Z

Pearl Intelligent sprinkler panel 64 zones, 15U (Dutch text)

The Notifier Pearl SMC sprinkler panel offer a wide range of advanced feature and functions while being very easy to install, program and operate. The panel is CPD approved to EN54-2 and 4 and conform the Dutch installation standard NEN-EN 12845:2011 and NEN1073. A full range of advanced input and output modules, fire detectors, LED boards, sprinkler mimic drivers and other peripherals allow you to obtain a flexible sprinkler alarm system. In addition to the zones LED indicators, a large display with its intuitive interface and menu allows a quick and easy operation of the system. The sprinkler panel is equipped with a PRL-BNL 2 loops panel with a capacity of 159 modules (and 159 devices) per loop. The Pearl/SMC can be connected to a Pearl network so that the panels operate as one system in a large application.

Specifications

- Power Supply: 3A
- Max. loop current: 750mA
- Sounders outputs: 2 x 500mA
- Relay outputs: Volt-free, changeover contacts for FIRE and FAULT
- Auxiliary output: 500mA
- Battery space: max. 2 x 38Ah/12V
- Dimensions (HxWxD): 612 mm x 600 mm x 372.5 mm

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)
Emergency Fire Signalling Panels

Optical and acoustic signalling panels suitable for any risk situation such as fire, flooding, gas extinguishing, etc. Panels are delivered without labels that have to be ordered separately. The housing material is a self-extinguishing thermoplastic, white color and the diffuser is a clear self-extinguishing polycarbonate.

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)

### A5055 SS
**LED’s light signalling panel**

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight:</td>
<td>700g</td>
</tr>
<tr>
<td>Dimensions (W x H x D):</td>
<td>365 mm x 180 mm x 50 mm</td>
</tr>
<tr>
<td>Rated current:</td>
<td>58 mA @ 24VDC</td>
</tr>
<tr>
<td>IP rating:</td>
<td>IP30</td>
</tr>
</tbody>
</table>

### A5555 SS
**LED’s light signalling panel IP65**

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight:</td>
<td>900g</td>
</tr>
<tr>
<td>Dimensions (W x H x D):</td>
<td>325 mm x 130 mm x 80 mm</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>from -10ºC to +50ºC</td>
</tr>
<tr>
<td>Rated current:</td>
<td>58 mA @ 24VDC</td>
</tr>
<tr>
<td>IP rating:</td>
<td>IP65</td>
</tr>
</tbody>
</table>

### Text labels

**Text labels for A5053 SS and A5055 SS Signalling Panels**

- **A08670N** “BRANDALARM”
- **A08671N** “ONTRUIMINGSALARM”
- **A08672N** “VERBODEN TOEGANG - GASALARM”

The below items are available on request only. Please check the last price list for lead time information.

---

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)
### Extinguishing Systems

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08666</td>
<td>“EXTINGUISHING IN PROGRESS”</td>
</tr>
<tr>
<td>A08667</td>
<td>“ALARM”</td>
</tr>
<tr>
<td>A08668</td>
<td>“FIRE ALARM”</td>
</tr>
<tr>
<td>A08669</td>
<td>“DO NOT ENTER”</td>
</tr>
<tr>
<td>A08670</td>
<td>“ALARME INCENDIE”</td>
</tr>
<tr>
<td>A08671</td>
<td>“EVACUATION IMMEDIATE”</td>
</tr>
<tr>
<td>A08672</td>
<td>“ENTREE INTERDITE”</td>
</tr>
<tr>
<td>A08673</td>
<td>“EINTRITT VERBOTEN”</td>
</tr>
<tr>
<td>A08674</td>
<td>“FEUERALARM”</td>
</tr>
<tr>
<td>A08675</td>
<td>“TIEFGARAGE SOFORT VERLASSEN”</td>
</tr>
<tr>
<td>A08676</td>
<td>“BETRETEN VERBOTEN - GASALARM”</td>
</tr>
<tr>
<td>A08660</td>
<td>“ALLARME INCENDIO”</td>
</tr>
<tr>
<td>A08664</td>
<td>“ABBANDONARE IL LOCALE”</td>
</tr>
<tr>
<td>A08658</td>
<td>“VIETATO ENTRARE SPEGNIMENTO AUTOMATICO IMMINENTE”</td>
</tr>
</tbody>
</table>

Other labels can be custom made (min. 100 pcs)

### Text labels for A5553 SS and A5555 SS IP65 Signalling Panels

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08670N-W</td>
<td>“BRANDALARM” IP65</td>
</tr>
<tr>
<td>A08671N-W</td>
<td>“ONTRUIMINGSALARM” IP65</td>
</tr>
<tr>
<td>A08672N-W</td>
<td>“VERBODEN TOEGANG - GASALARM” IP65</td>
</tr>
<tr>
<td>A08666-W</td>
<td>“EXTINGUISHING IN PROGRESS” IP65</td>
</tr>
<tr>
<td>A08667-W</td>
<td>“ALARM” IP65</td>
</tr>
<tr>
<td>A08668-W</td>
<td>“FIRE ALARM” IP65</td>
</tr>
<tr>
<td>A08671-W</td>
<td>“EVACUATION IMMEDIATE” IP65</td>
</tr>
<tr>
<td>A08672-W</td>
<td>“ENTREE INTERDITE” IP65</td>
</tr>
<tr>
<td>A08660-W</td>
<td>“ALLARME INCENDIO” IP65</td>
</tr>
<tr>
<td>A08664-W</td>
<td>“ABBANDONARE IL LOCALE” IP65</td>
</tr>
</tbody>
</table>

Other labels can be custom made (min. 100 pcs)

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)
Sprinklers Systems Monitoring

The new WFDEN Series waterflow detectors consists of a rugged, IP56-rated enclosure that is more damage resistant than previous metal designs. The waterflow detector is designed for both indoor and outdoor use, with the widest available temperature range, from 0°C to 68°C. Models are equipped with tamper-resistant cover screws to prevent unauthorized entry. Inside, two sets of SPDT (Form C) synchronized switches are enclosed in a durable terminal block with new layout designed to make wiring easy with wire ready terminals, COM terminals are on a different elevation, large barrier between switches and easy to read raised textured lettering all make wiring easy. An optional cover tamper switch is available, securely snaps into place, no tools required. The WFDEN series incorporates a mechanical time delay feature, which minimizes the risk of false alarm due to pressure surges or air trapped in the fire sprinkler system. The larger and easy to turn timer dial makes setting the waterflow detector easy with high contrast pad printed markings and three tabs to help with turning. The WFDEN series is designed for accuracy and repeatability. The detector also offers improved performance during vibration in riser applications where detectors are exposed to a large in rush of water.

- Compliant with CPR
- New directional cover allows installers and inspectors to easily see the direction of flow
- IP56 rated
- New cover provides a better seal, is lighter weight, not painted and corrosion resistant.
- Sealed retard mechanism immune to dust and other contaminants
- Less exposed metal reduces shock hazard, plastic cover acts as insulator and is resistant to arcing.
- Visual switch activation
- Audible switch activation (73 dBA)
- Field-replaceable timer/switch assembly.
- Accommodates up to 12 AWG wire
- 100 percent synchronization activates both alarm panel and local bell or horn strobe.
- Tamper-resistant cover screws
- Improved water sealing
- Reduced product weight
- Wire-ready terminals
- Improved wiring with new terminal block layout
- Snap-in optional cover tamper switch
- Timer repeatability
- Dial accuracy

CPD number: 0786-CPD-40151

Overall dimensions:
Sprinkler Systems Monitoring

Extinguishing Systems

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)

**WFD20EN**

Waterflow detector for use with 50 mm steel pipe

**Specifications**

- Hole size: 31.8 mm
- Triggering flow rate (liters/min): 47 liters/minute
- Static pressure rating (max.): 250 PSI
- Operating temperature range: 0°C to 49°C
- Enclosure rating: Nema4/IP56
- Contact ratings: 10A @ 125/250 VAC; 2.5A @ 24VDC

**WFD25EN**

Waterflow detector for use with 65 mm steel pipe

**Specifications**

- Hole size: 31.8 mm
- Triggering flow rate (liters/min): 49 liters/minute
- Static pressure rating (max.): 250 PSI
- Operating temperature range: 0°C to 49°C
- Enclosure rating: Nema4/IP56
- Contact ratings: 10A @ 125/250 VAC; 2.5A @ 24VDC

**WFD30EN**

Waterflow detector for use with 80 mm pipe

**Specifications**

- Hole size: 31.8 mm
- Triggering flow rate (liters/min): 47 liters/minute
- Static pressure rating (max.): 250 PSI
- Operating temperature range: 0°C to 49°C
- Enclosure rating: Nema4/IP56
- Contact ratings: 10A @ 125/250 VAC; 2.5A @ 24VDC

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)
Extinguishing Systems

Waterflow detector for use with 100 mm pipe

**WFD40EN**

**Specifications**
- Hole size: 50.8 mm
- Triggering flow rate (liters/min): 53 liters/minute
- Static pressure rating (max.): 250 PSI
- Operating temperature range: 0°C to 49°C
- Enclosure rating: Nema4/IP56
- Contact ratings: 10A @ 125/250 VAC; 2.5A @ 24VDC

Waterflow detector for use with 150 mm pipe

**WFD60EN**

**Specifications**
- Hole size: 50.8 mm
- Triggering flow rate (liters/min): 55 liters/minute
- Static pressure rating (max.): 250 PSI
- Operating temperature range: 0°C to 49°C
- Enclosure rating: Nema4/IP56
- Contact ratings: 10A @ 125/250 VAC; 2.5A @ 24VDC

Waterflow detector for use with 200 mm pipe

**WFD80EN**

**Specifications**
- Hole size: 50.8 mm
- Triggering flow rate (liters/min): 64 liters/minute
- Static pressure rating (max.): 250 PSI
- Operating temperature range: 0°C to 49°C
- Enclosure rating: Nema4/IP56
- Contact ratings: 10A @ 125/250 VAC; 2.5A @ 24VDC
Extinguishing Systems

Sprinkler Systems Monitoring

Pressure switches

EPS10-1

Alarm Pressure Switches

EPS10 Series switches are designed for use in wet, dry, deluge, and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler. The EPS10-1 has a single SPDT switch. The EPS10 Series features field adjustable pressure sensitivity to provide an alarm response between 4 and 20 psi. It is factory set to respond at 4 – 8 psi on rising or falling pressure. The EPS10 Series switches are NEMA 4 rated.

Specifications

- Weight: 540g
- Maximum operating pressure: 300 PSI
- Operating temperature range: –40°C to 71°C
- Switch contact ratings: 10A @ 125/250 VAC; 2.5A @ 6/12/24 VDC
- Dimensions (H x W x L): 13 cm x 8.4 cm x 10.8 cm

EPS40-1

Field-adjustable pressure switch

EPS40 Series switches are designed for use in wet, dry, deluge, and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler. The EPS40-1 has a single SPDT switch. The EPS40 Series feature field adjustable pressure sensitivity to provide an alarm response between 10 and 100 psi. The EPS40-1 is factory set to respond at 30 psi at decreasing pressure.

Specifications

- Weight: 540g
- Maximum operating pressure: 300 PSI
- Operating temperature range: –40°C to 71°C
- Switch contact ratings: 10A @ 125/250 VAC; 2.5A @ 6/12/24 VDC
- Dimensions (H x W x L): 13 cm x 8.4 cm x 10.8 cm

OSY2

Supervisory switch

The OSY2 is used to monitor the open position of an Outside Screw and Yoke type gate valve. It consists of a rugged housing, intended for indoor and outdoor use. The OSY2 features a user-friendly mounting bracket and adjustable shaft to permit mounting to most OS&Y valves. Its installation is made easier with the single side conduit entrance and is equipped with tamper-resistant cover screws to prevent unauthorized entry. Inside, two sets of synchronized switches are enclosed in a durable terminal block to assure reliable performance.

Specifications

- Weight: 1.3kg
- Operating temperature range: 0°C to 49°C
- Switch contact ratings: 10A @ 125/250 VAC; 2.5A @ 6/12/24 VDC
- Dimensions (H x W x L): 14.6cm x 8.9cm x 8.2cm

PIBV2

Supervisory switch of control valves

WFDT

T-TAP waterflow detector 1-1.5”

For spare parts, please refer to § Spare Parts at the end of this chapter (03. Extinguishing Systems)
## Extinguishing Systems

### Spare parts

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Spare part for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECP-25566A</td>
<td>Foil of 24 Dutch labels for ECP-804900</td>
<td>ECP-804900</td>
</tr>
<tr>
<td>ECP-25566A-W</td>
<td>Foil of 12 Dutch and 12 French labels for ECP-804902</td>
<td>ECP-804902</td>
</tr>
<tr>
<td>ESS-704901</td>
<td>Blue housing for electric stop push button, includes plastic key</td>
<td>ECP-804902</td>
</tr>
<tr>
<td>ESS-704902</td>
<td>Yellow housing for electronic control unit, includes plastic key</td>
<td>ECP-804900</td>
</tr>
<tr>
<td>ESS-704910</td>
<td>Break glass for ECP-804900 and ECP-84902</td>
<td>ECP call points</td>
</tr>
<tr>
<td>ESS-704911</td>
<td>Front label foil for electronic stop push button, includes Dutch, French, English, German &amp; Italian labels (Pack of 10; Replacement for ECP-LABELS B)</td>
<td>ECP-804902</td>
</tr>
<tr>
<td>ESS-704912</td>
<td>Front label foil for manual control unit, includes Dutch, French, English, German &amp; Italian labels (Pack of 10; Replacement for ECP-LABELS Y)</td>
<td>ECP-804900</td>
</tr>
<tr>
<td>ESS-769910</td>
<td>Plastic key for Class B MCP</td>
<td>ECP call points</td>
</tr>
<tr>
<td>LED-SMC-64Z-V2</td>
<td>Sprinkler led board tricolore</td>
<td>sprinkler</td>
</tr>
<tr>
<td>PUL-TAP</td>
<td>Spare cover for PUL-VSN/EXT (Pack of 5)</td>
<td>PUL-VSN/EXT</td>
</tr>
<tr>
<td>RP1r-CLL</td>
<td>Spare lock &amp; key (1 key only)</td>
<td>RP1r</td>
</tr>
<tr>
<td>RP1r-FA</td>
<td>RP1r spare power supply unit</td>
<td>RP1r</td>
</tr>
<tr>
<td>RP1r-PCB</td>
<td>RP1r base PCA assembly kit</td>
<td>RP1r</td>
</tr>
<tr>
<td>RP1R-SUPRA-KEY</td>
<td>Spare keylock &amp; key for RP1R-SUPRA</td>
<td>RP1r-Supra</td>
</tr>
<tr>
<td>RP1R-SUPRA-PCB</td>
<td>RP1r-SUPRA PCB panel</td>
<td>RP1r-Supra</td>
</tr>
<tr>
<td>TFT-SUPRA</td>
<td>Spare TFT 4.3” Touchscreen display for RP1r-SUPRA</td>
<td>RP1r-Supra</td>
</tr>
<tr>
<td>VSN-LL</td>
<td>Key switch for level 2 access (only for RP1r)</td>
<td>RP1r</td>
</tr>
</tbody>
</table>
Special Equipment

NOTIFIER® by Honeywell
Special Equipment

Aspirating Systems

NEW

FAAST XT (Availability will be announced)

The FAAST XT aspirating smoke detector combines advanced particle separation with unique dual source optical smoke detection technology to provide highly sensitive Very Early Warning Fire Detection while providing enhanced immunity to false alarms. This technology enables FAAST XT to accurately detect incipient fire conditions as early as 60 minutes before a fire actually starts when set for Early Warning and Very Early Warning Fire Detection in applications ranging from mission critical to harsh and extreme environments.

An installed FAAST XT device can protect up to 2,676 m² in standard coverage type applications and can be monitored in several different ways, including: Serial or TCP Modbus, Ethernet over a LAN or a direct connection, or via FAAST XT's onboard USB. When connected to a LAN, FAAST XT's email server can provide email event notification to appropriate personnel. FAAST XT also communicates alarm and notifications via form C relays.

- Provides Very Early Warning Fire Detection, as precise as 0.0015%/m obscuration
- Five alarm levels and three sensitivity modes provide application flexibility
- User configurable 3-speed fan, allowing for maximum coverage area or minimizing on current consumption
- Ultrasonic flow sensing for each pipe inlet and chamber airflow monitoring for precise system health information
- A single device covers up to 2,676 m²
- Dual source optical detection chamber with enhanced algorithms provide high sensitivity with greater immunity to nuisance conditions
- Patented particle separator removes large, non-fire particulate, ensuring chamber health and extending the life of the field-replaceable filter
- TCP and Serial modbus for easy integration with building management systems
- Easy configuration via USB interface, no external power needed
- Onboard Ethernet interface enables remote monitoring, configuration, web server and e-mail notifications
- Multilingual LCD user interface
- Configurable airflow fault thresholds and verification period

Specifications

- Dimensions (H x W x D): 338 mm x 333 mm x 191 mm
- External supply voltage: 18-30 VDC
- Operating current:
  - Fan high: 465mA, 11.2W; Fan med.: 340mA, 8.2W; Fan low: 220mA, 5.3W
  - Fan high: 493mA, 11.85W; Fan med.: 368mA, 8.5W; Fan low: 248mA, 6W
- Relay contact rating: 3A @ 30VD; 0.5A @ 125VAC
- 8 form C; 3A, programmable latching or non-latching
- Operating temperature: 0°C to 38°C
- Sampling air temperature: -20°C to +60°C
- Relative humidity: 10 to 99% (non-condensing)
- Sensitivity range: 0.0015% Obs/m to 20.5% Obs/m
- IP rating: IP30
- Coverage area: up to 2676 m²
- Maximum single pipe length: 123m (other three pipes disabled)
- Total pipe length: 320m (all designs must be verified within PipeIQ software)
- Event log: 18,000 events stored
- Communication network: Ethernet monitoring, 6 email address alerts, TCP and serial modbus
- Webserver: Read configuration, live view, logs

CPD number: pending

9400X

FAAST high sensitive aspiration system

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Aspirating Systems

FAAST™

- Detection as precise as 0.0015 %/m obscuration
- Five alarm levels and two sensitivity modes provide application flexibility
- Dual flow detection including both ultrasonic and electronic sensing for pipe and chamber air flow measurement
- A single device protects up to 2000 m²
- Advanced detection algorithms reject common nuisance conditions
- Patented particle separator and field-replaceable filter remove contaminants from the system
- PipeIQ™ software provides intuitive system layout, configuration, and monitoring all in one package
- Integral Ethernet interface enables remote monitoring and e-mail status updates
- Fault indicators provide a broad spectrum of events
- Unique air flow pendulum graph verifies pipe network functionality
- Particulate graph displays subtle environmental changes for early problem indications
- 5 programmable alarm levels for latching or non-latching as well as a 0 to 60 second delay to best accommodate local codes or environments
- At startup FAAST self-adapts to its environment in just 24 hours, not weeks. The exclusive Acclimate mode automatically adjusts within your specified parameters to reduce nuisance alarms and adjust to current conditions.

The FAAST™ 8100 aspirating smoke detector combines dual source (blue LED and infra-red laser) optical smoke detection with advanced algorithms to detect a wide range of fires while maintaining enhanced immunity to nuisance particulates. This enables FAAST™ to accurately detect incipient fire conditions as early as 30 to 60 minutes before a fire actually starts for Early Warning Fire Detection and Very Early Warning Fire Detection.

For initial system creation, the PipeIQ software guides users through pipe layout. The software also provides intuitive control over system configuration and ongoing system monitoring. An installed device can be monitored through its integral display, from a computer connected to the device, or remotely through a computer browser or mobile device when the detector is connected to the Internet via its Ethernet port. When Internet-connected, FAAST can also e-mail status updates to appropriate personnel. The detector can communicate alarm levels, urgent and minor faults, and isolate inputs via eight form C relays.

To enable a full detection strategy, FAAST combines its advanced communications capabilities with an extensive range of customizable settings. The detector provides five alarm levels that can be programmed for latching or non-latching relays.

To accommodate specific codes or environments, alarm delays can be set anywhere between 0 to 60 seconds. FAAST also supports two sensitivity modes: In Acclimate™ mode, the detector automatically adjusts itself to current environmental conditions to reduce nuisance alarms. Day/Night/Weekend mode enables technicians to preset alarm thresholds based on routine changes in the environment.

Specifications

- Dimensions (H x W x D): 337 mm x 330 mm x 127 mm
- External supply voltage: 18-30 VDC
- Remote reset time: external monitor must be pulled low for a minimum of 100 ms
- Power reset: 1 sec.
- Avg. operating current: 500mA @ 24VDC
- Operating temperature: 0°C to 38°C
- Relative humidity: 10 to 95% (non-condensing)
- IP rating: IP30
- Coverage area: up to 2000 m²

CPD number: 0786-CPD-21130; VDS number: G212002

8100E-BNL

FAAST high sensitive aspiration system, stand alone version

Including English language and a multi language pack (ref. F-A-LC-A) with Dutch, French, German and Italian.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Aspirating Systems

FAAST LT Loop version

The FAAST LT Aspirating Smoke Detector is designed with the installer and end user in mind. It serves the wide variety of Class C applications where maintenance is difficult, other smoke detection methods are inappropriate or prone to fail due to harsh environments or areas where aesthetics matters. It is also suitable for smaller mission critical applications where very early warning - Class A or B detection is required.

FAAST LT combines proven aspiration detection technologies to deliver reliable smoke detection and efficient installation and maintenance. The device includes high sensitivity laser fire detection, ultrasonic flow sensors, and internal design features to protect vulnerable components from environmental and human threats. The device is fast to install and easy to commission thanks to PIPE IQ LT pipe design and configuration software which is included as standard.

FAAST LT loop based devices are available as single channel and dual channel devices, offering flexibility for different detection strategies. A range of customisable settings are geared towards maximizing device performance and meeting different application needs.

Loop capability allows standard device integration, maintenance and support consistent with other 200 series devices.

The detector provides alarm and fault relays with auxiliary events relay as an option. These can be set as latched or non-latched. To accommodate local installation standards or environments, flow and general fault delays can also be set.

Specifications

- Dimensions (H x W x D): 403 mm x 356 mm x 135 mm
- Weight: 6.5kg
- External supply voltage: 18.5-31.5VDC
- Remote reset time: 1 sec.
- Power reset: 0.5 sec.
- Avg. operating current: 200mA @ 24VDC (excl. sounders)
- Max. avg. operating current: 500mA @ 24VDC (excl. sounders)
- Operating temperature: -10°C to 55°C
- Relative humidity: 10 to 93% (non-condensing)
- IP rating: IP65
- Sensitivity range: 0.06% - 6% obs/m

NFXI-ASD11

FAAST-LT Loop based - 1 channel with 1 laser detector

CPD number: 0832-CPD-2135

NFXI-ASD12

FAAST-LT Loop based - 1 channel with 2 laser detectors (common chamber) for double knock functionality

CPD number: 0832-CPD-2136

NFXI-ASD22

FAAST-LT Loop based - 2 channels with 2 laser detectors (separated chambers)

CPD number: 0832-CPD-2137

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Aspirating Systems

FAAST LT Stand alone version

The FAAST LT Aspirating Smoke Detector is designed with the installer and end user in mind. It serves the wide variety of Class C applications where maintenance is difficult, other smoke detection methods are inappropriate or prone to fail due to harsh environments or areas where aesthetics matters. It is also suitable for smaller mission critical applications where very early warning - Class A or B detection is required.

FAAST LT combines proven aspiration detection technologies to deliver reliable smoke detection and efficient installation and maintenance. The device includes high sensitivity laser fire detection, ultrasonic flow sensors, and internal design features to protect vulnerable components from environmental and human threats. The device is fast to install and easy to commission thanks to PIPE IQ LT pipe design and configuration software which is included as standard.

FAAST LT stand alone devices are available as single channel and dual channel devices, offering flexibility for different detection strategies. A range of customisable settings are geared towards maximizing device performance and meeting different application needs.

The detector provides alarm, pre-alarm and fault relays with auxiliary events relay as an option. These can be set as latched or non-latched. To accommodate local installation standards or environments, flow and general fault delays can also be set. Day/Night/Weekend mode enables technicians to pre-set alarm thresholds based on routine changes in the environment's usage.

Specifications

- Dimensions (H x W x D): 403 mm x 356 mm x 135 mm
- Weight: 6.5kg
- External supply voltage: 18.5-31.5VDC
- Remote reset time: 1 sec.
- Power reset: 0.5 sec.
- Avg. operating current: 200mA @ 24VDC (excl. sounders)
- Max. avg. operating current: 500mA @ 24VDC (excl. sounders)
- Operating temperature: -10°C to 55°C
- Relative humidity: 10 to 93% (non-condensing)
- IP rating: IP65
- Sensitivity range: 0.06% - 6% obs/m
- Coverage area: up to 2000m²

Configurable sensitivity - 9 levels from 0.06% to 6% obs/m
Multiple event logging up to 2240 events
Programmable alarm thresholds
Ultrasonic airflow sensing
A single device covers up to 2000m² (2 channel detector with 2x80m pipes with 9 holes per pipe per channel in Class C)
Particulate graph displays subtle environmental changes for early problem indication
PipeIQ™LT software provides intuitive system layout and configuration all in one package
User friendly airflow pendulum graph for verification of pipe network functionality
Protected electronics from air flow and accidental damage during installation or maintenance
 Easily replaceable and reusable filter without affecting the rest of the device
Designed for efficient wiring and installation: cable gland holes, easy access to the wiring area and no special tools required
Easy access to parts requiring routine maintenance: filter(s) or sensor(s).
Single & Dual channel versions with independent channels including fan, sensor and flow monitoring
IP65 enclosure

FL0111E FAAST-LT Stand Alone - 1 channel with 1 laser detector

CPD number: 0832-CPD-1990

FL0112E FAAST-LT Stand Alone - 1 channel with 2 laser detectors (common chamber)

CPD number: 0832-CPD-1991

FL0122E FAAST-LT Stand Alone - 2 channels with 2 laser detectors (separated chambers)

CPD number: 0832-CPD-1992
The FAAST XS aspirating smoke detector combines advanced particle separation with unique dual source optical smoke detection technology to provide highly sensitive Very Early Warning Fire Detection while providing enhanced immunity to false alarms. This technology enables FAAST XS to accurately detect incipient fire conditions as early as 60 minutes before a fire actually starts when set for Early Warning and Very Early Warning Fire Detection in applications ranging from mission critical to harsh and extreme environments. An installed FAAST XS device can protect up to 464 m² in standard coverage type applications and can be monitored in several different ways, including: Serial or TCP Modbus, Ethernet over a LAN or a direct connection, or via FAAST XS’s onboard USB. When connected to a LAN, FAAST XS’s email server can provide email event notification to appropriate personnel. FAAST XS also communicates alarm and notifications via form C relays.

**Specifications**

- **Dimensions (H x W x D):** 279 mm x 229 mm x 159 mm
- **External supply voltage:** 18-30 VDC
- **Operating current:** Fan high: 200mA, 4.8W; Fan med.: 151mA, 3.7W; Fan low: 120mA, 2.1W
- **Operating current:** Fan high: 230mA, 5.6W; Fan med.: 172mA, 4.2W; Fan low: 142mA, 3.5W
- **Relay contact rating:** 3A @ 30VD; 0.5A @ 125VAC
- **Operating temperature:** 0°C to 38°C
- **Sampling air temperature:** -20°C to +60°C
- **Relative humidity:** 10 to 95% (non-condensing)
- **Sensitivity range:** 0.00095% Obs/m to 20.5% Obs/m
- **IP rating:** IP30
- **Coverage area:** up to 464 m²
- **Maximum single pipe length:** 54.9m (all designs must be verified within PipeIQ software)
- **Total pipe length:** 91.5m (all designs must be verified within PipeIQ software)
- **Event log:** 18,000 events stored
- **Communication network:** Ethernet monitoring, 6 email address alerts, TCP and serial modbus
- **Webserver:** Read configuration, live view, logs
- **CPD number:** pending

**NEW**

**FAAST XS (Availability will be announced)**

**Aspirating Systems**

- Provides Very Early Warning Fire Detection, as precise as 0.00095%/m obscuration
- Three alarm levels and three sensitivity modes provide application flexibility
- User configurable 3-speed fan, allowing for maximum coverage area or minimizing on current consumption
- Ultrasonic flow sensing and chamber airflow monitoring for precise system health information
- A single device covers up to 464 m²
- Dual source optical detection chamber with enhanced algorithms provide high sensitivity with greater immunity to nuisance conditions
- Patented particle separator removes large, non-fire particulate, ensuring chamber health and extending the life of the field-replaceable filter
- TCP and Serial modbus for easy integration with building management systems
- Easy configuration via USB interface, no external power needed
- Onboard Ethernet interface enables remote monitoring, configuration, web server and e-mail notifications
- Multilingual LCD user interface
- Configurable air flow fault thresholds and verification period

7100X

**FAAST high sensitive aspiration system**
### Special Equipment

**Aspirating Systems**

#### FAAST™ and FAAST LT accessories

<table>
<thead>
<tr>
<th>F-LT-EB</th>
<th>Earth bar for FAAST LT</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>Item available on request only. Please check the last price list for lead time information.</td>
</tr>
</tbody>
</table>

#### LaserFocus

LaserFocus is available on request only. Please check the last price list for lead time information.

#### VLF-250

**Air sampling smoke detector**

The VLF-250 Air Sampling Smoke Detector provides very early warning smoke detection performance for the protection of small, business critical environments of 250m² or less.

The air sampling detection concept works by continually drawing ambient air through sampling holes in a pipe network. Upon entering the unit the sampled air is filtered and passed into the detection chamber where light scattering technology detects the presence of very small amounts of smoke.

As the amount of detected smoke increases the revolutionary circular Smoke Dial™ provides the user with an instant understanding of a smoke event, even from a significant distance. Detector status information is communicated externally via relays or optional interface cards.

**Specifications**

- **Voltage**: 24VDC Nominal (18-30VDC)
- **Current @ 24 VDC**: 220mA nominal, 295mA in alarm
- **Dimensions (W x H x D)**: 245 mm x 175 mm x 90 mm
- **Weight**: Approx. 2 kg
- **IP rating**: IP30
- **Detector ambient**: 0 °C to 40 °C
- **Sampled air**: 0 °C to 40 °C
- **Relative humidity**: 5% to 95% (non-condensing)
- **Maximum pipe lengths**: 1 x 25m (3-6 sampling holes pre-engineered) / 2 x 15 m per branch (2-4 sampling holes per branch pre-engineered)

**CPD number**: 0832-CPD-0771

#### VLF-500

**Early warning smoke detector**

As VLF-250, but up to 500m² coverage.

**Specifications**

- **Current @ 24 VDC**: 410mA nominal, 490mA in alarm
- **Maximum pipe lengths**: 1 x 50m (5-8 sampling holes pre-engineered) / 2 x 30 m per branch (3-6 sampling holes per branch pre-engineered)

**CPD number**: 0832-CPD-0771

---

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

LaserCompact (VLC)

LaserCompact is available on request only. Please check the last price list for lead time information.

Aspirating Systems

LaserCompact (VLC)

VLC-500RO

VLC detector – relays only

The VLC detector has been specifically designed to provide all the benefits of aspirating smoke detection, including very early warning, in single environment small areas and where space is a premium. The VLC combines the well-proven VLP detection technology with a modified aspirator design, and incorporates them into a compact enclosure with a simplified display.

The VLC-500RO is capable of monitoring up to 800m². Alarm and pre alarm is adjustable from 0.005% to 20% obs./m. The LaserCompact detector is fitted with 3 relays (Fire, Pre-alarm and Fault) and a RS232 connection. The RS232 connection makes commissioning of the unit simple especially with the VSC software.

Specifications

- **Supply voltage:** 18 to 30VDC
- **Power consumption:** 5.4 W quiescent, 5.9 W in alarm
- **Current consumption:** 225mA quiescent, 245mA in alarm
- **Fuse rating:** 1.6 A
- **Dimensions (W x H x D):** 225 mm x 225 mm x 85 mm
- **Weight:** 1.9 kg
- **Operating conditions:** Tested to -10°C to 55°C
  -10°C to 39°C
  -20°C to 60°C
- **Relative humidity:** 10% to 95% (non-condensing)
- **Sampling network:** Maximum area of coverage 800m²
- **Sampled air:** 1 x 80 m, 2 x 50 m
- **Computer design tool:** ASPIRE2™
- **Pipe diameter:**
- **Relays:** 3 Relays rated 2A @ 30VDC / Fire (NO) / Pre-Alarm (NO) / Alert/ Fault (Maintenance & Isolate) (NC/NO) / Configurable as latching & non latching
- **IP rating:** IP30
- **Cable access:** 4 x 25mm cable entries
- **Cable termination:** Screw terminal blocks 0.2–2.5 mm²
- **Alarm sensitivity range:** 0.005% to 20% obs/m

CPD number: 0832-CPD-0770
Special Equipment

LaserPlus detector

VLP-400

LaserPlus detector

LaserPlus is capable of monitoring up to 2000m². Alarm and pre alarm adjustable from 0,005% to 20% obs./m. The detector is particularly well suited for controlling various fire extinguishing systems e.g. sprinklers and gas extinguishing installations. The detector standard comes with 7 software programmable relays. The DualStage filter ensures that the laser chamber is provided with clean air, to prevent that the optical parts being polluted by dust. Comes with 3 blank plates, one with two signalling LED’s (Fire 1, Alarm and OK), enclosure IP30.

Specifications

- Maximum total pipe length: 200m
- Maximum individual pipe length: 100m
- Power consumption (no programmer or display): 460mA @ 4200rpm
- Voltage: 24VDC

CPD number: 0832-CPD-0768

VLP-002

LaserPlus with display

As VLP-400, but with a standard display module for reading the actual status of the detector including alarming levels and system faults. The display is equipped with 4 push buttons for Mode, Mute, Reset and Isolate.

Specifications

- Power consumption (detector and display): 520mA @ 4200rpm

CPD number: 0832-CPD-0768

VLP-012

LaserPlus display programmer

As VLP-002, but with a standard programmer module for configuring and servicing the detector. With the push buttons and integrated display all values can be entered and read.

Specifications

- Power consumption (detector with display and programmer): 580mA

CPD number: 0832-CPD-0768
Special Equipment

Aspirating Systems

Laser Scanner

- Individual pipe identification
- Adaptive scan threshold
- Wide sensitivity range
- Laser based smoke detection
- VESDAnet™ communication
- 4 alarm levels per sector
- High efficiency aspirator
- Clean air barrier optics protection
- Easy to replace air filter
- 7 or 12 programmable relays option
- AutoLearn™
- Referencing
- Event log
- Recessed mounting

LaserScanner is available on request only. Please check the last price list for lead time information.

LaserScanner is similar to the LaserPlus, but includes a valve mechanism in the inlet manifold and software to control the airflow from the four sectors (pipes). This configuration enables a single VESDA zone to be divided into 4 separate sectors, for example, distinguishing between separate voids within a room.

Specifications

- Dimensions (W x H x D): 350 mm x 225 mm x 125 mm
- Weight: 4kg (incl. Display & Programmer modules)
- Supply voltage: 18–30VDC
- IP rating: IP30
- Maximum total pipe length: 200m
- Maximum individual pipe length: 100m

VLS-600

LaserScanner detector

LaserScanner detector is capable of monitoring up to 2000m². Alarm and pre-alarm adjustable from 0.005% to 20% obs./m.

The LaserScanner detector is able to secure and monitor up to four different zones. In normal operation the detector draws air from all zones. When the smoke level reaches the Adaptive Scan Threshold, the Scanner will retrace the source of the smoke and scan each pipe individually.

Comes with three blank plates, one with signalling LED’s.

Specifications

- Dimensions (W x H x D): 350 mm x 225 mm x 125 mm
- Weight: 4kg (incl. Display & Programmer modules)
- Supply voltage: 18–30VDC
- IP rating: IP30
- Maximum total pipe length: 200m
- Maximum individual pipe length: 100m

CPD number: 0832-CPD-0769

VLS-700

LaserScanner three blank plates/leds 12 relays

As VLS-600 but with 12 software programmable relays.

CPD number: 0832-CPD-0769

VLS-204

LaserScanner detector standard display

As VLS-600, but with a standard display module for reading the actual status of the detector including alarm levels and system faults. The display is equipped with 4 push buttons for Mode, Mute, Reset and Isolate.

Specifications

- Power consumption (detector with display): 460mA @ 4200rpm
- Voltage: 24VDC
- Power consumption (without programmer or display): 400mA @ 4200rpm

CPD number: 0832-CPD-0769

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
VLS-214 LaserScanner with display and programmer 7 relays

As VLS-204, but with a standard programmer module for configuring and servicing the detector. With the push buttons and integrated display all values can be entered and read.

Specifications

- Power consumption (detector with display and programmer): 580mA

CPD number: 0832-CPD-0769

VLS-314 LaserScanner with display and programmer 12 relays

As VLS-214 but with 12 software programmable relays.

CPD number: 0832-CPD-0769
**Special Equipment**

**Sampling pipes & fittings**

### Red

The red sampling pipes & fittings are packed per 10 units.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 008/25</td>
<td>Pipe (ABS), red, diameter 25 mm - 3 metres long, pack of 10</td>
<td>Weight: 146g (for 10 units)</td>
</tr>
<tr>
<td></td>
<td>3 metres long pipe with external diameter of 25mm and interior diameter of 21mm with ABS material. Red color.</td>
<td></td>
</tr>
<tr>
<td>ABS 001/25</td>
<td>90° (ABS) bend for 25mm pipe, red, pack of 10</td>
<td>Weight: 146g (for 10 units)</td>
</tr>
<tr>
<td>ABS 002/25</td>
<td>45° (ABS) elbow for 25mm pipe, red, pack of 10</td>
<td>Weight: 260g (for 10 units)</td>
</tr>
<tr>
<td>ABS 030/25</td>
<td>Flexible pipe, diameter 25mm, transparent</td>
<td>Pipe length: 30 cm</td>
</tr>
<tr>
<td>ABS 003/25</td>
<td>Socket union (ABS) for 25mm pipe, red, pack of 10</td>
<td></td>
</tr>
<tr>
<td>ABS 004</td>
<td>Mounting clips for 25mm pipe, red, pack of 10</td>
<td>Weight: 76g (for 10 units)</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment).
### Special Equipment

#### ABS 005/25
**Socket to socket sleeve (ABS) for 25mm pipe, red, pack of 10**

Jointing socket between two externals 25mm diameters pipes.

**Specifications**
- **Weight:** 120g (10 units)

#### ABS 005-1
**Socket to socket sleeve (ABS) for 27 to 25mm pipe, red, pack of 10**

#### ABS 006/25
**T-piece (ABS) for 25mm pipe, red, pack of 10**

**Specifications**
- **Weight:** 266g (10 units)

#### ABS 007/25
**End cap (ABS) for 25mm pipe, red, pack of 10**

**Specifications**
- **Weight:** 66g (10 units)

#### White

The white sampling pipes & fittings are packed per 10 units.

The white sampling pipes & fittings are available on request only. Please check the last price list for lead time information.

#### ABS 008/25-WH
**Pipe (ABS), white, diameter 25 mm - 3 metres long, pack of 10**

---

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
### Special Equipment

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 001/25-WH</td>
<td>90° (ABS) bend for 25mm pipe, white, pack of 10</td>
</tr>
<tr>
<td>ABS 002/25-WH</td>
<td>45° (ABS) elbow for 25mm pipe, white, pack of 10</td>
</tr>
<tr>
<td>ABS 003/25-WH</td>
<td>Socket union (ABS) for 25mm pipe, white, pack of 10</td>
</tr>
<tr>
<td>ABS 004-WH</td>
<td>Mounting clips for 25mm pipe, white, pack of 10</td>
</tr>
<tr>
<td>ABS 005/25-WH</td>
<td>Socket to socket sleeve (ABS) for 25mm pipe, white, pack of 10</td>
</tr>
<tr>
<td>ABS 005-1-WH</td>
<td>Socket to socket sleeve (ABS) for 27 to 25mm pipe, white, pack of 10</td>
</tr>
<tr>
<td>ABS 006/25-WH</td>
<td>T-piece (ABS) for 25mm pipe, white, pack of 10</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

ABS 007/25-WH  End cap (ABS) for 25mm pipe, white, pack of 10

Remote sampling point assemblies

ABS 010  Warning labels for capillary sampling point, roll of 100 pieces

For the marking of the intake points of the PVC/ABS pipe(s).

Roll of 100 labels.

Specifications

- Weight: 50g

ABS 011  Cement 250ml

Remote sampling point assemblies

Red

ABS 019C/25  Capillary conical sample point kit for 25mm pipes, red

To connect on an ABS 008/25 pipe. For flexible installation or suspended ceilings.

Kit containing:
- T-piece
- 2 meter capillary tube
- Sampling point (conical head)

ABS 019F/25  Capillary flush sample point kit for 25mm pipes, red

To connect on an ABS 008/25 pipe. For flexible installation or suspended ceilings.

Kit containing:
- T-piece
- 2 meter capillary tube
- Sampling point (flush disc head)

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

The below items are available on request only. Please check the last price list for lead time information.

**ABS 020/25**

**Capillary discrete sample point kit for 25mm pipes, red**

To connect on an ABS 008/25 pipe. For flexible installation or suspended ceilings.

Kit containing:
- T-piece
- 2 meter capillary tube
- Sampling point (discrete head)

**ABS 019C/25EC**

**Capillary conical sample point kit for 25mm pipes (end cap), red**

To connect on an ABS 008/25 pipe. For flexible installation or suspended ceilings.

Kit containing:
- End cap
- 2 meter capillary tube
- Sampling point (conical head)

**ABS 019F/25EC**

**Capillary flush sample point kit for 25mm pipes (end cap), red**

To connect on an ABS 008/25 pipe. For flexible installation or suspended ceilings.

Kit containing:
- End cap
- 2 meter capillary tube
- Sampling point (flush disc head)

**ABS 020/25EC**

**Capillary discrete sample point kit for 25mm pipes (end cap), red**

Point 8mm to connect on an ABS 008/25 pipe. For flexible installation or suspended ceilings.

Kit containing:
- End cap
- 2 meter capillary tube
- Sampling point (discrete head)

**510-KIT**

**Capillary flush sample point kit for 25mm pipes (T-piece), red**

Ideal for mounting in false ceilings.

Kit containing capillary sampling point, a 1 meter tube made of flexible nylon (10mm outer diameter and 8mm inner diameter), ceiling mount and T-piece for connection to the aspiration pipe network and a kit of 8 white sampling points, with diameters of 2, 2.5, 3, 3.5, 4, 4.5, 5 and 6 mm.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Sampling pipes & fittings

The below items are available on request only. Please check the last price list for lead time information.

510-FIN
Capillary flush sample point kit for 25mm pipes (end cap), red

Ideal for mounting in false ceilings.

Kit containing capillary sampling point, a 1 meter tube made of flexible nylon (10mm outer diameter and 8mm inner diameter), ceiling mount and end cap for connection to the aspiration pipe network and a kit of 8 white sampling points, with diameters of 2, 2.5, 3, 3.5, 4, 4.5, 5 and 6 mm.

520-MTS-80R
Pack of 5 sampling point kits, red (for 510-KIT only)

Kit of 8 sampling points, with diameters of 2, 2.5, 3, 3.5, 4, 4.5, 5 and 6 mm. In red ABS material. Only for use with 510-KIT and 510-FIN.

The below items are available on request only. Please check the last price list for lead time information.

White

ABS 019C/25-WH
Capillary conical sample point kit for 25mm pipes, white

ABS 019F/25-WH
Capillary flush sample point kit for 25mm pipes, white

ABS 020/25-WH
Capillary discrete sample point kit for 25mm pipes, white

ABS 019C/25EC-WH
Capillary conical sample point kit for 25mm pipes (end cap), white

ABS 019F/25EC-WH
Capillary flush sample point kit for 25mm pipes (end cap), white

ABS 020/25EC-WH
Capillary discrete sample point kit for 25mm pipes (end cap), white

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
## Special Equipment

### Sampling pipes & fittings

## Components

<table>
<thead>
<tr>
<th>Red</th>
<th>ABS CAP-RED</th>
<th>10mm nylon flexible - red (per metre)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Image of red capillary" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>ABS 021/25</th>
<th>Capillary end cap for ABS 008/25 pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Image of red capillary end cap" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>ABS 022/25</th>
<th>Capillary T piece for ABS 008/25 pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Image of red capillary T piece" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>White</th>
<th>ABS CAP-WHITE</th>
<th>10mm Nylon tube - opaque (per metre)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Image of white capillary" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>ABS 021/25-WH</th>
<th>Capillary end cap for ABS 008/25-WH pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Image of white capillary end cap" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>ABS 022/25-WH</th>
<th>Capillary T piece for ABS 008/25-WH pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="Image of white capillary T piece" /></td>
</tr>
</tbody>
</table>

The below items are available on request only. Please check the last price list for lead time information.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Accessories

The below items are available on request only. Please check the last price list for lead time information.

02-WT-01 External water trap kit
Traps the water condensation.

PIP-025 25mm x 12” Condensation valve trap with ball valve

PIP-033 25mm Sight glass with condensation drain

F-PC Pipe cutter, for pipes up to 27mm

Aspiration reducing films

The Aspiration reducing films & banderole are packed per 10 units.

F-BS Banderole, pack of 10
For securing the aspiration reducing film sheet on the PVC/ABS pipe(s).

F-AF-2.0 Aspiration reducing film sheet 2.0mm, pack of 10
F-AF-2.5 Aspiration reducing film sheet 2.5mm, pack of 10
F-AF-3.0 Aspiration reducing film sheet 3.0mm, pack of 10
F-AF-3.6 Aspiration reducing film sheet 3.6mm, pack of 10
F-AF-4.0 Aspiration reducing film sheet 4.0mm, pack of 10
F-AF-4.6 Aspiration reducing film sheet 4.6mm, pack of 10
F-AF-5.0 Aspiration reducing film sheet 5.0mm, pack of 10
Special Equipment

F-AF-5.6  Aspiration reducing film sheet 5.6mm, pack of 10

F-AF-6.0  Aspiration reducing film sheet 6.0mm, pack of 10

Smoke & heat evacuation systems

SAHEP series

The multilingual SAHEP-4 panel is a smoke and heat evacuation panel built in a compact and curved attractive housing. The SAHEP-4 is the smallest panel on the market delivering 8A and with full built in control. Because of their size these panels are commonly installed directly in the entrance halls of apartments without the need of installing extra priority controls, call points, ventilation buttons.

The following functions are available on the control panel without the need of any addition: call point function, ventilation opening and priority control for the fire brigade.

The NBN S 21-208 demands a priority control for the fire brigade. The opening of a smoke vent can be done automatically by a smoke detector but it is up to the fire brigade to decide if the smoke vent must be closed when it brings to much oxygen in the building. This open and close control must have a higher priority than fire detectors or comfort controls. This priority control must be on a second access level and it must be possible to put the smoke vent in the ‘close’ position even before a Fire Switch is activated! The Sahep panels are a Belgian product and are manufactured specially to fulfill this Belgian requirement. On the Sahep panels these buttons are hidden behind a break out Plexiglas. There is also the possibility to add a second external priority control on the Sahep panel: SAHEP-PRIOR.

The Sahep panels are specially designed for easy installation.

The standard conventional call points with 470 ohms resistor can be used as Fire Switch on the Sahep panel.

Specifications

- Dimensions (W x H x D): 20 cm x 20 cm x 7 cm
- Operation temperature: -5°C to +60°C
- Colour: Black
- Battery backup: Batteries included
- Autonomy: 72 h with 2.1 Ah batteries
- Max. total load, motor output: 24V, 8A
- Fire brigade priority control: NBN S 21-208, Can be put in ‘close’ position before activation of a Fire Switch and is on a second access level behind a break out Plexiglas.
- Fire brigade priority control input: Two wire, polarity independent input, supervised by end of line open and close
- Fire group: Unlimited number of call points
- Comfort group: Unlimited number of switches
- Smoke-/heat detectors: 1 line with line monitoring – max 30 detectors
- Wind-and rain sensor: Input for closing
- Master Slave connection: Up to 20 slave control panels of each 8A can be connected to the master panel
- Visual indicators: LED
- Designed to meet: PR EN12101-9
- Approval: EN12101-10 (pending)

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Smoke & Heat Evacuation Systems

SAHEP-4N
Smoke and heat evacuation panel for 4 motors, 8A

The functions Fire switch, Comfort switch and priority control for the fire brigade are available on this panel. Standard conventional call points with 470 ohms resistor are used as additional Fire Switches. If needed any type and an unlimited quantity of external comfort switches can be added.

2 X 2,1Ah-12V batteries included.

SAHEP-4N-EFS
Smoke and heat evacuation panel 8A, slave version

This slave panel can be connected to the SAHEP-4N and provides 8A with battery backup. This slave panel can be installed close to the smoke vent which leads to short high current wiring for the motors. On this slave panel a 70°C temperature sensor can be added providing a failsafe opening system. Even when the connection with the master panel fails, the slave panel will open the smoke vent at 70°C.

SAHEP-EFS-SENSOR
Temperature sensor 70°C for SAHEP-4N-EFS

This sensor can be connected to the SAHEP-4N-EFS to make a failsafe opening system.

SAHEP-PRIOR
Additional external fire brigade priority control

Key switch as external priority control with open, close and neutral position. The key switch contains electronics to connect this three position switch with only two, polarity independent wires, to the Sahep panel. The connection is supervised with a built in end of line resistor. Maximum one SAHEP-PRIOR can be added on a Sahep panel.

Specifications

- Dimensions (W x H x D): 87 mm x 87 mm x 52 mm

SAHEP-WRD1
Wind & rain detector control unit

On this control unit a RD rain detector or WD wind detector can be added. The control unit can be connected to the Sahep control panel to provide automated closing of the vent in case of wind or rain. This automated closing will be overruled by a fire detection or an activation of the fire brigade priority control. Includes surface mounting box.

Specifications

- Power supply: 230VAC
- Load contact: 2.5A, 24V
- Setting of the wind speed: 5km/h to 35km/h
- Delay to avoid unwanted opening – closing: 2 min
- Dimensions (W x H x D): 120 mm x 110 mm x 145 mm
Special Equipment

SAHEP-RD  
Rain detector

The SAHEP-RD rain detector functions with a capacitive sensor. So rain is detected in a capacitive way. In a capacitive rain sensor no external PCB traces are visible. These traces are sensitive for oxidation. This rain detector is compatible with the WRD1. A mounting bracket is included.

Specifications
- Dimensions (W x H x D): 120 mm x 110 mm x 145 mm

SAHEP-WD  
Wind detector

This wind detector is compatible with the WRD1. A mounting bracket is included.

Specifications
- Dimensions (W x H x D): 95 mm x 110 mm x 110 mm

Spindle motors

Specifications
- Weight of smoke evacuation window that the motor can lift:
  - DS24VDC350/550/750: 65kg
  - DS24VDC950: 20kg

SAHEP-DS24VDC350  
Motor 24VDC 650N 35 cm IP65

Item available on request only. Please check the last price list for lead time information.

SAHEP-DS24VDC550  
Motor 24VDC 650N 55 cm IP65

SAHEP-DS24VDC750  
Motor 24VDC 650N 75 cm IP65

SAHEP-DS24VDC950  
Motor 24VDC 200N 95 cm IP65

Item available on request only. Please check the last price list for lead time information.

SAHEP-PROFIL U  
‘U’ profile for DS24VDCxxx

Item available on request only. Please check the last price list for lead time information.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
## Special Equipment

### Spindle motors for dual arms

The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAHEP-DUO24VDC550</td>
<td>Motor 24VDC 600N 55 cm IP65 for dual arms</td>
</tr>
<tr>
<td>SAHEP-DUO24VDC750</td>
<td>Motor 24VDC 600N 75 cm IP65 for dual arms</td>
</tr>
<tr>
<td>SAHEP-DUODR550</td>
<td>Slave arm for DUO 55cm</td>
</tr>
<tr>
<td></td>
<td>Requires assembling kit SAHEP-TT130</td>
</tr>
<tr>
<td>SAHEP-DUODR750</td>
<td>Slave arm for DUO 75cm</td>
</tr>
<tr>
<td></td>
<td>Requires assembling kit SAHEP-TT160</td>
</tr>
<tr>
<td>SAHEP-TT130</td>
<td>Assembling kit for DUO 55cm</td>
</tr>
<tr>
<td>SAHEP-TT160</td>
<td>Assembling kit for DUO 75cm</td>
</tr>
</tbody>
</table>

### Apricolor chain motor

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAHEP-APRICOLOR</td>
<td>Chain motor, 24VDC, 300N, 150N</td>
</tr>
</tbody>
</table>

The Apricolor motor is a chain motor. The chain is rolled up in the motor inside a nylon case. The chain is protected by a Dacromet coating.
Chain actuator for opening and closing gable windows and roof windows.
Special Equipment

Smoke & Heat Evacuation Systems

Actulux series

SVM series control panels

SVM “Mini” control panels are constructed to provide and control the operation of the opening systems for comfort and fire ventilation with 24VDC electrical opening units. The SVM control panel has a compact and elegant design and is equipped with 100% double supply as standard according to EN12101-10 (motor output from internal supply or battery). 72 hours battery back-up is included. The SVM control panel is equipped with connection terminals for external signals, detectors and contacts. Possibility for built-in fire and comfort switches in the front.

The below items are available on request only. Please check the last price list for lead time information.

### Specifications

- **Power supply:** 230VAC - max. 250VA
- **Operating temperature:** -5°C - +60°C
- **IP rating:** IP50
- **Dimensions (H x W x D):** 286 mm x 238 mm x 113 mm
- **Colour:** White RAL 9003
- **Battery back-up:** Incl. (72h)
- **Max. total load, motor output:** 24V - 5A / 8A
- **Motor output:** 1 pc. (terminals 6mm²) - 1, 2, 3 or 4 lines with line monitoring
- **Fire group:** 1 pc. with line monitoring - max. 20 pcs. external fire switches
- **Comfort group:** 1 pc. - unlimited no. of switches
- **Smoke-/heat detectors:** 1 line with line monitoring - max. 20 pcs. detectors
- **Wind- and rain sensor:** Input for close all
- **Serial connection of controls:** Bus connection integrates most functions - from 2-10 controls in same bus connection
- **Visual indication (LED) in front panel:** OK, AC fault, DC fault, Line fault, Alarm

### Control panel SVM 24V-5A

- ACT-SVM24V-5A-BASIC: Control panel SVM 24V-5A Basic
- ACT-SVM24V-5A-FS: Control panel SVM 24V-5A incl. Fire switch
- ACT-SVM24V-5A-F-CS: Control panel SVM 24V-5A incl. Fire and comfort switch

### Control panel SVM 24V-8A

- ACT-SVM24V-8A-BASIC: Control panel SVM 24V-8A Basic
- ACT-SVM24V-8A-CS: Control panel SVM 24V-8A incl. Comfort switch
- ACT-SVM24V-8A-FS: Control panel SVM 24V-8A incl. Fire switch
- ACT-SVM24V-8A-F-CS: Control panel SVM 24V-8A incl. Fire and comfort switch

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Accessories for SVM Series control panels

ACT-VR-1
Wind and rain detector for SVM panel

The wind/rain sensor consists of a wind wheel and a rain sensor surface. It is developed for an automatic control of the smoke and comfort ventilation system. The wind/rain sensor is protected with a potential free SPDT switch with a contact rating of max. 60V/2A.

In case of wind and/or rain the SPDT switch is activated. The settings for the wind trigger threshold (the wind force makes the sensor report a too high wind force), the actuation delay, the drop out delay and the release in case of main power failure are made by a 6 pole DIP switch in the sensor.

Specifications
- Power supply: 18 to 26VAC or 20 to 32VDC
- Output contact: 1 x potential free SPDT switch
- Load contact: 60V / 2A
- Dimensions (WxHxD): 80 mm x 160 mm x 55 mm (without wind wheel)
- Weight: Approx. 0.7 kgs
- IP rating: IP65
- Setting of the wind mode: Approx. 3 to 14 m/s (+ / -20%)
- Setting of the wind-/rain drop out delay: 10 min. / 20 min.
- Setting of the wind actuation delay: 2 sec. / 5 sec.
- Setting of the monitoring: Off / On
- CE-marking: in accordance with the EMC-directive and low voltage directive.

ACT-WSK
Fire switch for SVM panel

Specifications
- Function: Alarm (open), reset and off sound indicator
- LED indication: “ok”; “fault”(yellow); “alarm activated” (red)
- Dimensions (W x H x D): 125 mm x 125 mm x 36 mm
- Colour: Grey
- IP rating: IP40

ACT-OPUS
Comfort switch for SVM Panel

Up/down switch for manual control of comfort ventilation, e.g. in connection with 24V fire and smoke ventilation systems. The up/down switch is delivered with housing for wall mounting.

Specifications
- Dimensions (W x H x D): 65 mm x 65 mm x 45 mm
### Wireless Systems

**Notifier NRX RF range (Availability will be announced)**

The Notifier NRX RF Wireless Fire Detection System is a newly designed platform of wireless fire devices suitable for all applications where wired fire devices can’t be installed for economic or aesthetic reasons. The look and feel of our wired fire devices combined with cutting edge wireless mesh network technology delivers superior performance when compared to traditional wireless star network technologies. The NRX RF range can be connected to all Notifier intelligent panels.

- **Wireless mesh network bidirectional communication technology**
- **Two communication paths to each wireless device**
- **18RF channels at 868Mhz**
- **2 integrated antennas on each wireless fire device**
- **Addresses set using S200 rotary switches**
- **Patented battery service life predicted feature**
- **Loop powered gateway**
- **Up to 8 gateways per loop**
- **Up to 32 wireless devices per gateway**

**NRX-USB**

**USB radio frequency dongle**

The NRX-USB is an interface that connects to a PC through a USB port and allows communication with Notifier NRX RF devices. The NRX-USB is powered directly by the USB port.

**Specifications**

- **Supply voltage:** 4.3 - 5.5VDC
- **Supply current:** 33mA typical@5V
- **USB standard:** USB 2.0 (full speed)
- **USB connector:** Type A
- **Range:** 130m (typ. in free air)
- **Dimensions (h x w x d):** 13 mm x 96 mm x 31 mm
- **Radio frequency:** 865-870Mhz
- **RF output power:** 13dBm (max.)
- **Relative humidity:** 10% to 93% (non-condensing)
NRX-REP

The NRX-REP radio repeater is a battery operated RF device designed for use with the NRXI-GATE radio gateway, running on a Notifier intelligent fire system (using a compatible proprietary communication protocol). The repeater contains a wireless transceiver and plugs into the B501RF wireless sensor base. It is used to extend the RF range of the radio fire detection system.

Specifications

- **Comm. loop supply voltage:** 3.3VDC max.
- **Standby current:** 120uA @ 3V (typical in normal operating mode)
- **Red LED current max.:** 4mA
- **Range:** 500m (typ. in free air)
- **Dimensions (Ø x h):** 104 mm x 51 mm (incl. B501RF)
- **Weight:** 115 g
- **Batteries:** 4 x Duracell Ultra 123
- **Average battery life:** 4 years @ 25°C
- **Radio frequency:** 865-870Mhz
- **RF output power:** 14dBm (max.)
- **Range:** 500m (typ. in free air)
- **Relative humidity:** 10% to 93% (non-condensing)

Conforms to EN54-25 and EN54-18.

NRXI-GATE

The NRXI-GATE is an advanced RF device designed for use with Notifier intelligent fire systems that use a compatible proprietary communication protocol for monitoring and control. The gateway contains a wireless transceiver that enables bidirectional RF communication between Notifier NRX radio fire detection and signalling devices and the CIE controlling the fire alarm system.

Specifications

- **Comm. loop supply voltage:** 15-29VDC (Loop current ≤ 900mA)
- **Max. short circuit protection current:** 900mA
- **Comm. loop standby current (no loop comm.):** @ 24V: up to 510uA depending on RF configuration (worst case 32 devices in star configuration)
- **Comm. loop (poll once per 5s, green LED blink):** @ 24V: up to 3.4mA depending on RF configuration (worst case 32 devices in star configuration)
- **Loop LED on current (max.):** Red 4mA; Amber 5.3mA
- **Power on initialisation time:** 2 sec (typical)
- **Dimensions (Ø x h):** 102 mm x 42 mm (incl. B501AP)
- **Weight:** 90 g
- **Radio frequency:** 865-870Mhz (up to 18 channels)
- **RF output power:** 14dBm (max.)
- **Range:** 400m (typ. in free air)
- **Relative humidity:** 10% to 93% (non-condensing)

Conforms to EN54-25, EN54-17 and EN54-18.
## NRX-OPT

**Radio frequency optical detector**

The NRX-OPT is a battery operated RF optical device designed for use with the NRXI-GATE radio gateway. It contains a wireless transceiver and runs on a Notifier intelligent fire system (using a compatible proprietary communication protocol). The RF sensor plugs into the B501RF wireless sensor base.

### Specifications

- **Comm. loop supply voltage:** 3.3VDC max.
- **Standby current:** 120uA @ 3V (typical in normal operating mode)
- **Red LED current max.** 4mA
- **Range:** 500m (typ. in free air)
- **Dimensions (Ø x h):** 104 mm x 62 mm (incl. B501RF)
- **Weight:** 132 g
- **246 g (incl. B501RF & 4 batteries)**
- **Batteries:** 4 x Duracell Ultra 123
- **Average battery life:** 4 years @ 25°C
- **Radio frequency:** 865-870Mhz
- **RF output power:** 14dBm (max.)
- **Relative humidity:** 10% to 93% (non-condensing)

Conforms to EN54-25 and EN54-7

## NRX-TDIFF

**Radio frequency Rate of Rise detector**

The NRX-TDIFF heat sensor is a battery operated RF device designed for use with the NRXI-GATE radio gateway. It contains a wireless transceiver and runs on a Notifier intelligent fire system (using a compatible proprietary communication protocol). The NRX-TDIFF provides 58°C rate-of-rise (10°C/minute) temperature sensing (A1R).

The sensor plugs into the B501RF wireless sensor base.

### Specifications

- **Comm. loop supply voltage:** 3.3VDC max.
- **Standby current:** 120uA @ 3V (typical in normal operating mode)
- **Red LED current max.** 4mA
- **Range:** 500m (typ. in free air)
- **Dimensions (Ø x h):** 104 mm x 70 mm (incl. B501RF)
- **Weight:** 124 g
- **238 g (incl. B501RF & 4 batteries)**
- **Batteries:** 4 x Duracell Ultra 123
- **Average battery life:** 4 years @ 25°C
- **Radio frequency:** 865-870Mhz
- **RF output power:** 14dBm (max.)
- **Relative humidity:** 10% to 93% (non-condensing)

Conforms to EN54-25 and EN54-5 (class A1R).
NRX-SMT3  
Radio frequency PTIR detector

The NRX-SMT3 radio sensor is a battery operated RF device designed for use with the NRXI-GATE radio gateway. It contains a wireless transceiver and runs on a Notifier intelligent fire system (using a compatible proprietary communication protocol). The NRX-SMT3 provides 58°C temperature sensing (A1S). The sensor plugs into the B501RF wireless sensor base.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm. loop supply voltage</td>
<td>3.3VDC max.</td>
</tr>
<tr>
<td>Standby current</td>
<td>120μA @ 3V (typical in normal operating mode)</td>
</tr>
<tr>
<td>Red LED current max.</td>
<td>4mA</td>
</tr>
<tr>
<td>Range</td>
<td>500m (typ. in free air)</td>
</tr>
<tr>
<td>Dimensions (Ø x h)</td>
<td>104 mm x 70 mm (incl. B501RF)</td>
</tr>
<tr>
<td>Weight</td>
<td>136 g</td>
</tr>
<tr>
<td>Batteries</td>
<td>4 x Duracell Ultra 123</td>
</tr>
<tr>
<td>Average battery life</td>
<td>4 years @ 25°C</td>
</tr>
<tr>
<td>Radio frequency</td>
<td>865-870Mhz</td>
</tr>
<tr>
<td>RF output power</td>
<td>14dBm (max.)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10% to 93% (non-condensing)</td>
</tr>
</tbody>
</table>

Conforms to EN54-25 and EN54-5 (class A1S).

NRX-TFIX58  
Radio frequency thermal detector

The NRX-TFIX58 heat sensor is a battery operated RF device designed for use with the NRXI-GATE radio gateway. It contains a wireless transceiver and runs on a Notifier intelligent fire system (using a compatible proprietary communication protocol). The NRX-TFIX58 provides 58°C temperature sensing (A1S). The sensor plugs into the B501RF wireless sensor base.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm. loop supply voltage</td>
<td>3.3VDC max.</td>
</tr>
<tr>
<td>Standby current</td>
<td>120μA @ 3V (typical in normal operating mode)</td>
</tr>
<tr>
<td>Red LED current max.</td>
<td>4mA</td>
</tr>
<tr>
<td>Range</td>
<td>500m (typ. in free air)</td>
</tr>
<tr>
<td>Dimensions (Ø x h)</td>
<td>104 mm x 70 mm (incl. B501RF)</td>
</tr>
<tr>
<td>Weight</td>
<td>124 g</td>
</tr>
<tr>
<td>Batteries</td>
<td>4 x Duracell Ultra 123</td>
</tr>
<tr>
<td>Average battery life</td>
<td>4 years @ 25°C</td>
</tr>
<tr>
<td>Radio frequency</td>
<td>865-870Mhz</td>
</tr>
<tr>
<td>RF output power</td>
<td>14dBm (max.)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10% to 93% (non-condensing)</td>
</tr>
</tbody>
</table>

Conforms to EN54-25 and EN54-5 (class A1S).
Special Equipment

ORX-BCP

Radio frequency WCP

The NRX-WCP radio call point is a battery operated RF device designed for use with the NRXI-GATE radio gateway running on a Notifier intelligent fire system (using a compatible proprietary communication protocol). It is a waterproof manual call point, combined with a wireless RF transceiver and fits onto a wireless backplate.

Specifications

- Comm. loop supply voltage: 3.3VDC max.
- Standby current: 2mA
- Red LED current max.: 2mA
- Range: 500m (typ. in free air)
- Dimensions (h x w x d): 94 mm x 99 mm x 71 mm
- Weight: 251 g (incl. 4 batteries)
- IP rating: IP67
- Batteries: 4 x Duracell Ultra 123
- Average battery life: 4 years @ 25°C
- Radio frequency: 865-870Mhz
- RF output power: 14dBm (max.)
- Relative humidity: 10% to 93% (non-condensing)

Conforms to EN54-25 and EN54-11.

NRX-DKM

Radio frequency DKM

The NRX-DKM radio call point is a battery operated RF device designed for use with the NRXI-GATE radio gateway running on a Notifier intelligent fire system (using a compatible proprietary communication protocol). It is a break-glass manual call point, combined with a wireless RF transceiver and has a removable backplate.

Specifications

- Comm. loop supply voltage: 3.3VDC max.
- Standby current: 120uA @ 3V (typical in normal operating mode)
- Red LED current max.: 2mA
- Range: 500m (typ. in free air)
- Dimensions (h x w x d): 94 mm x 99 mm x 71 mm
- Weight: 320 g (incl. 4 batteries)
- IP rating: IP20
- Batteries: 4 x Duracell Ultra 123
- Average battery life: 4 years @ 25°C
- Radio frequency: 865-870Mhz
- RF output power: 14dBm (max.)
- Relative humidity: 10% to 93% (non-condensing)

Conforms to EN54-25 and EN54-11.
Special Equipment

Wireless Systems

Accessories

BAG RF HWKIT  Survey bag

Bag with separated spaces to keep all the necessary tools to run a survey: 2 poles, 2 cups, 2 repeaters and a universal support.

POLE HWKIT  Telescopic pole for wireless range

Telescopic pole of 5.2m to be used, in conjunction with a cup, to keep the devices close to the ceiling when needed for the site survey or to unplug detectors from the bases on the ceiling.

CUP HWKIT  Cup for wireless range

Can be used, together with a pole, to keep the devices close to the ceiling when needed for the site survey or to unplug detectors from the bases on the ceiling.

SOLOADAPT HWKIT  Cup for wireless range

Adapter to use the cup on SOLO telescopic pole, to keep the devices close to the ceiling when needed for the site survey or to unplug detectors from the bases on the ceiling.

Sagittarius Series

SAGITTARIUS is a highly advanced wire to wireless system providing a solution for fire detection applications where traditional installations may be unacceptable or uneconomic.

The system is based on a proven protocol and wireless technology derived from the European security industry. Compatible with the NF series of intelligent panels, these devices integrate seamlessly onto the loop wiring via a loop powered translator module that provides up to 32 wireless fire detectors and devices. Multiple translators can be installed on each loop.

The translator provides for full sensor intelligent values on the European Frequency of 868 Mhz, fire and fault information and type ID’s to be transmitted to the fire control panel.

All devices are delivered with batteries.

LPCB approved to EN54-25
SG-IDP-RM1  
**Receiver interface module**

Loop powered up to 32 wireless devices. Bi-directional dialogue protocol. 7 transmission channels available (868 MHz).

**Specifications**

- **Current:** max 25mA
- **Loop power supply range:** 18 - 40 VDC
- **Typical current consumption:** 20mA (@ 24VDC)
- **Operating frequency range:** 868.15-869.85 Mhz
- **Radiated power range:** 5dBm (3mW)
- **Number of frequency channels:** 7
- **Communication range with a wireless expander:** max. 600m (in open space)
- **Communication range with a wireless device:** max. 200m (in open space)
- **Max. linked wireless devices:** 32 devices (max. 16 outputs)
- **Max. linked wireless expanders:** 7
- **Temperature range:** -30°C to +50°C
- **Relative humidity:** 5% to 90% (non-condensing)
- **Dimensions (H x W x D):** 160 mm x 120 mm x 51 mm

SGCWE100  
**Sagittarius conventional system - expander module**

The Sagittarius conventional system expander is a module device permitting to add a wireless sub-system to a conventional fire security installation. This device is connected directly to the conventional control panel’s zone line and is actually part of it. This device allows wireless sounders silencing by being controlled by the control panel’s sounder output line.

**Specifications**

- **Communication range between expander and wireless devices:** 200m (in open space)
- **Operating frequency channels:** 7
- **Radiated power:** 5 dBm (3 mW)
- **Power supply voltage range:** - 9-27VDC
- **Power supply lower fault threshold:** 9VDC
- **Conventional zone line applied voltage:** Same as device's power supply applied voltage
- **Sounder's line maximum voltage:** 27VDC
- **Expander maximum current consumption:** 60mA at 12VDC (alarm)
- **Operating temperature range:** -30 °C to +50 °C
- **Dimensions (without antennas):** 120 mm x 160 mm x 51 mm
- **Weight:** 330 g
- **IP rating:** IP 51C

**CPD number:** 0832-CPD-1689
Special Equipment

Wireless Systems

SGWE
Wireless expander

Provides an extended signal coverage area up to 6 boosters per interface locally powered (12-24 Vdc) up to 32 wireless devices. Bi-directional dialogue protocol.

Specifications
- Voltage range: 9-27VDC
- Expander current consumption: 15mA @ 24VDC
- Operating temperature range: -30°C to +50°C
- Dimensions (with antennas): 190 mm x 230 mm x 50 mm
- IP rating: IP51C

CPD number: 0832-CPD-1690

SG-PU
Display module with keypad

Wireless communication with receiver.

Only for conventional application.
Not compatible with SG-IDP-RM1.

SG100
Wireless optical smoke detector

Includes 360° bicolor LED & base.

Specifications
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Main battery: CR-123 A (approx. life time 5 years)
- Secondary battery: CR-2032 A (approx. life time 2 months)
- Weight: 150g
- Dimensions: 110 mm x 54 mm
- Approved to: EN54-7 & EN54-25

CPD number: 0832-CPD-1069

SG200
Wireless multi-tech optic / heat detector

Includes 360° bicolor LED & base.

Specifications
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Main battery: CR-123 A (approx. life time 5 years)
- Secondary battery: CR-2032 A (approx. life time 2 months)
- Weight: 150g
- Dimensions: 110 mm x 54 mm
- Approved to: EN54-5 & EN54-7 & EN54-25

CPD number: 0832-CPD-1070
Special Equipment

**Wireless Systems**

**SG350**
Wireless heat detector

Includes 360° bicolor LED & base.

**Specifications**

- Operating frequency channels: 7
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Main battery: CR-123 A (approx. life time 5 years)
- Secondary battery: CR-2032 A (approx. life time 2 months)
- Alarm threshold: Programmable from 58°C to 78°C with translator
- Approved to: EN54-5 & EN54-25

CPD number: 0832-CPD-1068

**SG/SC**
Decorline supplement for special coated detector

Available colors on request.

Minimum order quantity of 50 pcs.

Item available on request only. Please check the last price list for lead time information.

**SGCP100**
Wireless manual call point

Complies EN54-11.

Includes surface mounting box & break glass.

**Specifications**

- Dimensions (H x W x D): 86 mm x 86 mm x 59 mm
- Weight: 186g
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Approved to: EN54-11 & EN54-25

CPD number: 0832-CPD-1683

**SGWCP100**
Wireless manual call point, weatherproof

**Specifications**

- Dimensions (H x W x D): 120 mm x 130 mm x 55 mm
- Operating temperature: -30°C to +55°C
- IP rating: IP67
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
SGMI200  
**Wireless monitored input module**

The wireless monitored input module allows the switched on/off status of an external device to be transmitted to the control panel through translator / expander devices.

**Specifications**
- Main battery type: CR123 A
- Backup battery type: CR2032 A
- IP rating: IP65
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Approved to: EN54-18 & EN54-25

**CPD number:** 0832-CPR-F0691

---

SGMC200  
**Wireless control module**

With relay (requires external power supply).

**Specifications**
- Operating Voltage: 12-27VDC
- Current consumption: 50mA
- Dimensions: 109 mm x 37 mm
- Weight: 52g
- IP rating: IP65
- Relay:
  - Max. switched voltage: 30VDC
  - Max. switched current: 2A
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Approved to: EN54-18 & EN54-25

**CPD number:** 0832-CPR-F0691

---

SGMCB200  
**Wireless control module**

With relay output (works on batteries).

**Specifications**
- Dimensions: 87 mm x 87 mm x 40 mm
- Weight: 150g
- Main battery type: CR123 A
- Backup battery type: CR123 A
- IP rating: IP65
- Relay:
  - Max. switched voltage: 30VDC
  - Max. switched current: 2A
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Approved to: EN54-18 & EN54-25

**CPD number:** 0832-CPR-F0691
Wireless Systems

SG-CWS100-KIT  Wireless wall mounted sounder, red

Replacement for SGRS100-H.

The CWS100 conventional red wall sounder with 32 tones (incl. Slow whoop tone) and volume settings is weatherproof at standard. When the SGWS-MOD is fitted into the CWS100 it becomes fully compatible with the wireless translator and expander modules.

When ordering the SG-CWS100-KIT, you’ll receive:
1 x CWS100 conventional red sounder
1 x SGWS-MOD wireless module for CWS100(-AV)

Specifications

- Max. acoustic output: 100dB(A) @ 1m
- IP rating: IP65
- Operating temperature: -25°C to +70°C
- Max. relative humidity: 95% (non-condensing)
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 150m (in open space)
- Approved to:
  - EN54-3 (CWS100)
  - EN54-18 & EN54-25 (SGWS-MOD)

CPD number: pending

SGRBS100  Wireless sounder base

The SGRBS100 wireless sounder base is an acoustic output device that is activated in case of fire or emergency situations. Meets EN54 part 3.

Item available on request only. Please check the last price list for lead time information.

Specifications

- Usable operating frequency channels: 7
- Main battery type: CR123A (3 V & 1.2 Ah)
- Operating temperature range: From -10 °C to +55 °C
- IP rating: IP 21C
- Maximum volume range @ 1m: From 89 dBa to 91 dBa
- Tones: 32, incl. Slow Whoop tone (NL)

CPD number: 0832-CPD-1684
Special Equipment

Wireless Systems

SG-CWS100-AV-KIT

Wireless wall mounted sounder/beacon, red

The CWS100-AV conventional red wall sounder beacon with 32 tones (incl. Slow Whoop tone) and volume settings is weatherproof as standard. When the SGWS-MOD is fitted into the CWS100-AV it becomes fully compatible with the wireless translator and expander modules.

When ordering the SG-CWS100-AV-KIT, you’ll receive:
1 x CWS100-AV conventional red sounder/beacon
1 x SGWS-MOD wireless module for CWS100(-AV)

Specifications

- Max. acoustic output: 100dB(A) @ 1m
- Visual alarm device frequency: 0.5Hz or 1Hz
- EN54-23 Classification: W-2.4-9.5
- IP rating: IP65
- Operating temperature: -25°C to +70°C
- Max. relative humidity: 95% (non-condensing)
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 150m (in open space)
- Approved to: EN54-3 & EN54-23 (CWS100-AV)
- CPD number: 0832-CPD-1685

SGRBS100-AV

Wireless audiovisual sounder base

The SGRBS100-AV wireless audiovisual sounder base is an output device that combines together acoustic and visual signaling features performed in case of fire or emergency situations. SGRBS100-AV’s incorporated beacon’s flash rate and light intensity are fixed. Meet EN 54 part 25.

Item available on request only. Please check the last price list for lead time information.

Specifications

- Operating temperature range: From –10 °C to +55 °C
- Maximum volume range @ 1m : From 70 dBA to 95 dBA (selectable)
- Tones: 32
- Radiated power: 5dBm (3mW)
- Communication range with the receiver module: max. 200m (in open space)
- Max. relative humidity: 95% (non-condensing)
- IP rating: IP21C (type A for indoor using only)
- Dimensions: 145 mm x 66 mm
- Approved to: EN54-3 & EN54-25

SGFI200-S

Remote led indicator

The SGFI200-S wireless remote indicator lamp is an output device which, activated by the control panel, switches on in the event of alarms, faults or emergency conditions.

Specifications

- Operating temperature range: From –10 °C to +55 °C
- Dimensions: 87 mm x 87 mm x 68 mm
- Weight: 180g
- Communication range with the receiver module: max. 200m (in open space)
Linear Heat Detection

Linear Heat Detection (LHD) cable-based systems provide economical temperature monitoring at the precise point of risk. The system is reliable, flexible and has the ability to detect abnormal temperature variance before fire breaks out. The LHD product allows a vast range of commercial and industrial fire and overheat risks to be protected, in ambient temperature of -65 to +238°C. Classic applications: cable tunnels, floating roof tanks, conveyors bulk storage, rail locomotives, rolling stock, vehicle engine bays, etc.

LHD-LWM1

Electronic interface module

The LWM-1 linear heat detection system allows early detection of fire or overheating. It is especially suited for confined areas or harsh environments where adverse ambient conditions cause other detection devices to be unreliable or difficult to use. The system consists of two components: the sensor cable and the Alarmline control unit LWM-1.

Specifications

- Housing material: ABS
- Dimensions (WxHxD): 200 mm x 120 mm x 80 mm
- Weight approx.: 550 g
- IP rating: IP65
- Color: Grey similar to RAL 7035
- Temperature range: -20 °C to 50 °C
- Length of sensor per control unit: Max. 300 m, min. 10 m
- Voltage: 10-30VDC
- Quiescent current consumption: Max. 25 mA / 24VDC
- Current consumption on: Max. 25 mA / 24VDC
- Current consumption on fault max.: 15 mA / 24VDC
- In-rush current (on power up): < 100 mA / 24VDC

Approved to EN54 Part 5; VdS number: G205066

LHD-BLUE

Standard high resistance intelligent cable

For environments ranging from clean and dry to moderate dust and moisture.

Available reel lengths are: 100m; 200m; 500m; 1000m.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHD-BLACK</td>
<td>Nylon coated high resistance int. cable</td>
<td>For use in wet, oily or corrosive environments or outdoors. Use in freezer warehouse. Available reel lengths are: 100m; 200m; 500m; 1000m.</td>
</tr>
<tr>
<td>LHD-BRONZE</td>
<td>Bronze braided high resistance int. cable</td>
<td>For applications requiring superior abrasion protection or increased tensile strength. Available reel lengths are: 100m; 200m; 500m; 1000m.</td>
</tr>
<tr>
<td>LHD-STAINLESS</td>
<td>Nylon stainless steel braided high resistance intelligent cable</td>
<td>Recommended for extreme environments. Available reel lengths are: 100m; 200m; 500m; 1000m.</td>
</tr>
<tr>
<td>LHD-EC2.3</td>
<td>Edge clip, 2-3mm WEB</td>
<td>Requires neoprene sleeves &amp; ties.</td>
</tr>
<tr>
<td>LHD-EC3.8</td>
<td>Edge clip, 3-8mm WEB</td>
<td>Requires neoprene sleeves &amp; ties.</td>
</tr>
<tr>
<td>LHD-EC8.18</td>
<td>Edge clip, 8-14mm WEB</td>
<td>Requires neoprene sleeves &amp; ties.</td>
</tr>
<tr>
<td>LHD-EC14.2</td>
<td>Edge clip, 14-20mm WEB</td>
<td>Requires neoprene sleeves &amp; ties.</td>
</tr>
<tr>
<td><strong>LHD-DP</strong></td>
<td>200mm distance piece for edge clip</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Requires neoprene sleeves &amp; ties. Order edge clips &amp; neoprene sleeving separately.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LHD-TC</strong></th>
<th>T clip</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Requires neoprene sleeves &amp; ties. Order edge clips &amp; neoprene sleeving separately.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LHD-PC</strong></th>
<th>Pipe clip</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Requires neoprene sleeves &amp; ties. Order edge clips &amp; neoprene sleeving separately.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LHD-VC</strong></th>
<th>V clip (incl. rubber)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Requires neoprene sleeves &amp; ties. Order edge clips &amp; neoprene sleeving separately.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LHD-CT</strong></th>
<th>Cable ties (100/set)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LHD-NS</strong></th>
<th>Neoprene sleeving</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>LHD-ELTK</strong></th>
<th>End line termination kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pack of 10.</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Industrial Heat Detectors

Thermal rate of rise detectors of the TMP2 series detectors guarantee high measure precision for long periods and high immunity from EMI interference. TMP2 detectors have an integrated alarm LED for alarm indication. Both peculiarities confer to TMP2 high performance, reducing probability of false alarms.

Sensors are compatible with all Notifier control panels using them like normal smoke detectors. Direct wiring for conventional panels and connection through M710-CZR module, for intelligent panels.

The TMP2 series includes an electronic circuit for signal conditioning generated by the transducer. The electronic card is reduced to the minimum size using SMC technology and placed directly into the unit probe.

The industrial heat detectors & accessories are available on request only. Please check the last price list for lead time information.

### Specifications

- **Supply voltage:** 10-30VDC
- **Supply current:** approx. 20/30uA in normal conditions >20mA in alarm condition
- **Temperature range:** -20°C to +110°C
- **Code of Protection:** ATEX II 2G Ex d IIC T6
- **IP rating:** IP66 (Probe IP67)
- **Approved to:** EN54 Part 5

**CPR number:** 0068-CPR-009/2014
Special Equipment

**Industrial Heat Detectors**

### Dust type

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Overal dimensions (h x l x d):</td>
<td>203 mm x 95 mm x 60 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>400 g</td>
</tr>
<tr>
<td>• IP rating:</td>
<td>IP66</td>
</tr>
<tr>
<td>• Cable holder:</td>
<td>M20</td>
</tr>
</tbody>
</table>

- Introduced double cable holder
- New auto-locking terminal block for quicker and easier installation
- Diagnostic LED showing connections errors as loop inversions

**Dust type Probes only**

**Housing not included.**

- **TMP2-D-A257R1A** Rate of Rise dust thermal detector - 57°C
- **TMP2-D-C90R1A** Rate of Rise dust thermal detector - 90°C
- **TMP2-D-D110R1A** Rate of Rise dust thermal detector - 110°C
- **TMP2-D-A257S1A** Fixed temp. dust thermal detector - 57°C
- **TMP2-D-C90S1A** Fixed temp. dust thermal detector - 90°C
- **TMP2-D-D110S1A** Fixed temp. dust thermal detector - 110°C

**ATEX Type**

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Overal dimensions (h x l x d):</td>
<td>160 mm x 85 mm x 75 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>410 g</td>
</tr>
</tbody>
</table>

- **TMP2-TO-A257R1A** Rate of Rise Eexd thermal detector - 57°C
- **TMP2-TO-C90R1A** Rate of Rise Eexd thermal detector - 90°C

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
**Special Equipment**

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)

**Industrial Heat Detectors**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMP2-TO-D110R1A</td>
<td>Rate of Rise Eexd thermal detector - 110°C</td>
</tr>
<tr>
<td>TMP2-TO-A257S1A</td>
<td>Fixed temp. Eexd thermal detector - 57°C</td>
</tr>
<tr>
<td>TMP2-TO-C90S1A</td>
<td>Fixed temp. Eexd thermal detector - 90°C</td>
</tr>
<tr>
<td>TMP2-TO-D110S1A</td>
<td>Fixed temp. Eexd thermal detector - 110°C</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMP2-ST14</td>
<td>EEx-d junction box for end-of-line resistor</td>
</tr>
<tr>
<td>GDA-M/B-KF4A</td>
<td>Mounting brackets</td>
</tr>
<tr>
<td></td>
<td>Mounting Brackets for heat detectors ATEX type TMP2.</td>
</tr>
<tr>
<td>GDA-CH12-NA</td>
<td>ATEX cable gland</td>
</tr>
<tr>
<td></td>
<td>Size 1/2” for ATEX type TMP2, for non armoured cables.</td>
</tr>
<tr>
<td>GDA-CH12</td>
<td>ATEX cable gland</td>
</tr>
<tr>
<td></td>
<td>Size 1/2” for ATEX type TMP2, complete of rubber parts, for armoured cables.</td>
</tr>
</tbody>
</table>
## Special Equipment

### TMP_Configurator

[Image of TMP_Configurator]


## Industrial Heat Detectors

### HD Series

Thermal detectors of HD series guarantee high measure precision for long period and high immunity from EMI interference. Both peculiarities confer to HD high performance, reducing the probability of false alarms.

HD Sensors are compatible with all Notifier control panels using them like normal smoke detectors. Direct wiring for conventional panels and connection through M710-CZR module, for intelligent panels.

The sensing element is a heat pick-up shield and a bi-metal switch.

Mounting box & cable gland included.

### Specifications

- **Dimensions (Ø x h):** 95 mm x 42 mm
- **Weight:** 82g
- **IP rating:** IP67

### HD6295

**IP67 sensor. T°: 60°C**

- CPD number: 0845-CPD-232.1192; ATEX compliance: II 3 G Ex ic IIC T5 Gc X & II 3 D Ex ic IIIC T100˚C Dc X

### HD6296

**IP67 sensor. T°: 80°C**

- CPD number: 0845-CPD-232.1193; ATEX compliance: II 3 G Ex ic IIC T5 Gc X & II 3 D Ex ic IIIC T100˚C Dc X

### HD6297

**IP67 sensor. T°: 100°C**

- CPD number: 0845-CPD-232.1194

### HD6298

**IP67 sensor. T°: 120°C**

- CPD number: 0845-CPD-232.1195

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Industrial Heat Detectors

Industrial sounders

MS1/R

**Specifications**
- Dimensions (W x H x D): 90 mm x 90 mm x 81 mm
- Voltage: 24 VDC
- Current consumption: 20 - 110mA
- IP rating: IP54
- Approved to: EN54-3

VdS number: G28702

Y05D

**Industrial sounder 24V 110dB**

**Specifications**
- Dimensions (W x H x D): 169 mm x 134 mm x 128 mm
- Operation temperature: -25°C to 55°C
- Storage temperature: -40°C to 70°C
- Current consumption: min. 20mA
- Voltage: 24 VDC
- Weight: 0.55kg (DC)
- IP rating: IP54
- Approved to: EN54-3

VdS number: G28702

Y08D

**Industrial sounder 24V 106dB**

**Specifications**
- Dimensions (W x H x D): 269 mm x 216 mm x 153 mm
- Voltage: 24 VDC
- Current consumption: 20 - 110mA
- IP rating: IP54
- Approved to: EN54-3

VdS number: G28702

Y08/SD_Y A80/D/RF/SU

**Industrial super sounder 24V 120dB**

**Specifications**
- Dimensions (W x H x D): 269 mm x 216 mm x 153 mm
- Operation temperature: -25°C to 55°C
- Storage temperature: -40°C to 70°C
- Weight: 3kg
- Current consumption: Min. 300mA
- Voltage: 24 VDC
- Approved to: EN54-3

CPD number: 0086-CPD-96705

Item available on request only. Please check the last price list for lead time information.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
# Industrial strobes & Combined sounders

## MS2/R/R
**Xenon strobe - 24VDC - 5W - red**

**Specifications**
- Dimensions (W x H x D): 90 mm x 90 mm x 81 mm
- Weight: 240g
- Voltage: 24 VDC
- Current consumption: 3-65mA
- Operating temperature: -40°C to +70°C
- IP rating: IP54
- Approved to: EN54-23

Vds number: G28714

## MS5/R/R
**Industrial strobe and sounder 5 W - 106dB - 32 tones**

**Specifications**
- Dimensions (W x H x D): 90 mm x 179 mm x 81 mm
- Weight: 450g
- Voltage: 24 VDC
- Current consumption: Flash: 300mA; Sounder: 35mA
- Operating temperature: -40°C to +70°C
- IP rating: IP54
- Approved to: EN54-3

CPD number: 0086-CPD-96705

---

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Intrinsically safe devices

Conventional manual call points

Manual break glass fire alarm call points for use with galvanic isolator in hazardous areas.

MTL5561

CONVENTIONAL ZONE

EOL

MCP IS + SERIAL R470
MCP IS + SERIAL R470
MCP IS + SERIAL R470

Maximum 10 MCP per zone

The below items are available on request only. Please check the last price list for lead time information.

Red

The red conventional call points contain:
- Operating element label: EN54-11 “Dot & Arrows”
- Function label: Burning House
For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)

MCP1A-R470FG-01IS
IS MCP with break glass element 470R

Includes break glass element & monitoring resistor R470.

Specifications

- Dimensions (W x H x D):
  89 mm x 93 mm x 59,5 mm
- Weight:
  130g (flush); 180g (surface)
- Ambient temperature range:
  -10°C to +55°C
- Operating voltage range:
  14-28VDC (nominal 24VDC)
- Storage temperature range:
  -40°C to +85°C
- Relative humidity:
  93 +/-3% (non-condensing)
- Material:
  PC/ABS
- IP rating:
  IP24D
- Color:
  Red, RAL3001
- ATEX compliance:
  II 1G EX ia IIC T4 Ga

ATEX number: SIRA-04ATEX2350X_ISS4

Please order surface mounting box separately.

Cable glands are not included.

MCP1A-R470FF-01IS
IS MCP with flexible element 470R

As MCP1A-R470FG-01IS but with flexible element.
**Special Equipment**

**Intrinsically Safe Devices**

**MCP3A-R000FG-01IS**  
**IS MCP with break glass element**

Includes break glass element & a changeover contact (max. 30VDC).

**Specifications**

- Dimensions (W x H x D): 89 mm x 93 mm x 59,5 mm
- Weight: 130g (flush); 180g (surface)
- Ambient temperature range: -10°C to +55°C
- Relative humidity: 93 +/- 3% (non-condensing)
- Maximum voltage: 30VDC
- IP rating: IP24D
- Material: PC/ABS
- Color: Red, RAL3001
- ATEX compliance: II 1G Ex ia IIC T4 Ga

ATEX number: SIRA-04ATEX2350X_ISS4

Please order surface mounting box separately.

Cable glands are not included.

---

**MCP3A-R000FF-01IS**  
**IS MCP with flexible element**

As MCP3A-R000FG-01IS but with flexible element.

---

**WCP1A-R470SG-01IS**  
**Waterproof IS MCP with break glass element**

Includes break glass element, surface mounting box, a normally open contact (max. 30VDC) and 470R monitoring resistor.

**Specifications**

- Dimensions (W x H x D): 97.5 mm x 93 mm x 71 mm
- Weight: 350g
- Operating temperature range: -25°C to +70°C
- Relative humidity: 0-93 +/- 3% (non-condensing)
- IP rating: IP67
- Material: PC/ABS
- Color: Red, RAL3001
- ATEX compliance: II 1GD Ex ia IIIC T4 Ga; Ex ia IIIIC T135°C Da

ATEX number: SIRA06ATEX2131X_ISS4

Cable glands are included.

---

**WCP1A-R470SF-01IS**  
**Waterproof IS MCP with flexible element**

As WCP1A-R470SG-01IS but with flexible element.
Special Equipment

Intrinsically Safe Devices

WCP3A-R000SG-01IS  Waterproof IS MCP with break glass element

Includes break glass element, surface mounting box & a changeover contact (max. 30VDC).

Specifications

- Dimensions (W x H x D): 97.5 mm x 93 mm x 71 mm
- Weight: 240g
- Operating temperature range: -30°C to +70°C
- Relative humidity: 0% - 95% (non-condensing)
- IP rating: IP67
- Material: PC/ABS
- Color: Red, RAL3001
- ATEX compliance: II 1GD Ex ia IIC T4 Ga; Ex ia IIIC T135°C Da

ATEX number: SIRA06ATEX2131X ISSUE 5

Cable glands are included.

WCP3A-R000SF-01IS  Waterproof IS MCP with flexible element

As WCP3A-R000SG-01IS but with flexible element.

Other colours

The conventional call points in other colors contain:
- Operating element label: EN54-11 'dot & arrows'
- Function label: plain color

For other labels, please order the specific foil separately (See §. Foil with labels for Call Points & Switches)
- Surface mounting box.

Please replace “x” in the part n° by the code for the needed color: Y = yellow; G = green; B = blue; W = white

Items available on request only. Please check the last price list for lead time information.

WCP3A-x470SG-01IS  Waterproof IS MCP with break glass element

WCP3A-x000SG-01IS  Waterproof IS MCP with break glass element

WCP1A-x470SF-01IS  Waterproof IS MCP with flexible element

WCP3A-x000SF-01IS  Waterproof IS MCP with flexible element
Intrinsically Safe Devices

Accessories

MTL5561  2 channel galvanic isolator for IS conv. det

Specifications

- Weight: 130g
- Number of channels: 2
- Current range: 1 to 40mA, nominal
- Integral input polarity protection: Input circuit protected against reverse polarity
- Hazardous-area output: Max. output voltage 28VDC from 300Ω
- Loop supply voltage: 6 to 35VDC

For connection from conventional zone to intelligent panel

M710-CZR  Conventional zone input module

Complete with end of line resistors, plug in screw connections, direct decade address entry and tri-colour LED's complete with built-in isolator.

Specifications

- External supply voltage conv. zone: 12 to 28.5 VDC
- Max. conventional zone current limit: 60mA
- Operating Temperature: -20°C to 60°C
- Relative humidity: 5% to 95% (non-condensing)
- Dimensions (W x H x D): 83 mm x 83 mm x 23 mm
- Weight: 110g

CPD number: 0832-CPD-1390; VDS number: G210089

M200-SMB  Surface mount box

To be used with M700 series modules.

Specifications

- Dimensions (W x H x D): 139 mm x 134 mm x 40 mm
- IP rating: IP50
**Intelligent devices**

**IDX-751 EA**

**IS Intelligent optical detector, ivory color**

Only CLIP protocol 99+99. Ideal for installation in zones 0, 1 and 2. Ivory color.

Requires B501AP-IV base, galvanic isolator Y72221 and interface module IMX-1E.

**Specifications**

- Dimensions (Ø x h): 102 mm x 47 mm
- Weight: 112.5g (base included)
- Operating voltage: 17 to 24VDC
- Weight: 115g
- IS rating: II 1G Ex IIC T5/T4 Ga
- Approved to: EN54-7

ATEX number: Baseefe08ATEX0278X; VDS number: G209130

**NEW**

**IDX-751 EA-WH**

**IS Intelligent optical detector, bright white (availability to be announced)**

**Y72221**

**Galvanic isolator for IS intelligent devices**

To be used with IMX-1E and IDX-751EA.

**Specifications**

- Weight: 100g
- Input voltage range: 20 to 24VDC
- Current range: 1 to 20mA
- Dimensions (W x H x D): 20 mm x 107.5 mm x 110 mm
Special Equipment

Intrinsically Safe Devices

K-LB-1.30G

Surge protection module for Y72221

This surge protection barrier limits induced transients of different origin (e.g. lightning stroke, switching impulse, etc.). This is achieved by diverting the transient current to ground and limiting the signal line voltage to a safe level for the duration of the surge. It also protects instruments such as zener barriers.

Specifications

- Rated voltage: max. 30VDC
- Rated current: max. 250mA
- Leakage current: max. 5μA

SMB500

Surface mounting box for IMX-1E

Ivory plastic box for surface mount of the IMX-1E module.

Specifications

- Dimensions (W x H x D): 124 mm x 124 mm x 54 mm

IMX-1E

Interface module for IS intelligent devices

The IMX-1E allows up to 15 IDX-751EA intrinsic safe detectors on one module.

Specifications

- Weight: 142g
- Input voltage range: 20 to 24VDC
- Current range: 1 to 20mA
- Dimensions (W x H x D): 70 mm x 70 mm x 32 mm

Item available on request only. Please check the last price list for lead time information.
Special Equipment

Audio & Visual devices

For use with galvanic isolator in hazardous areas.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)

The below items are available on request only. Please check the last price list for lead time information.

Cable glands are not included.

MS1/R/IS

IS sounder 100dB, IP55, 32 selectable tones, incl. Slow whoop tone

Specifications

- Dimensions (W x H x D): 90 mm x 180 mm x 81 mm
- Current: 25 mA
- Operating temperature: -25°C to +40°C
- Rel. humidity: 95% at 40°C
- Weight: 0.490Kg
- IP rating: IP55
- Intrinsic safety Rating: II 1 G Ex ia IIC T4 Ga & II 1 D Ex ia IIIC T190°C Da
- Supply voltage: 24VDC

ATEX number: EECS-BAS02ATEX1190X; Baseefa 08 Atex 0194x

DA5-24VDC

IS sounder 100dB, IP65, 26 selectable tones incl. Slow whoop tone

Specifications

- Dimensions (Ø x h): 93 mm x 103 mm
- Supply voltage: 24VDC
- Current: 14 mA
- IP rating: IP65
- Intrinsic safety Rating: Group II, Category 1G, EEX ia T4
- Supply voltage: 24VDC

ATEX number: BAS00ATEX1259

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Y05/R/IS

IS sounder 105dB, IP65, 32 selectable tones incl. Slow whoop tone

 Specifications

- Dimensions (W x H x D): 169 mm x 134 mm x 128 mm
- Intrinsic safety Rating: II 1 G Ex ia IIC T4 Ga; II 1 D Ex ia IIIC T190°C Da
- Current: 28 mA
- Operating temperature: -25°C to +40°C
- Rel. humidity: 95% at 40°C
- Weight: 0.810Kg
- IP rating: IP56
- Operating voltage: 24VDC, 48VDC (BT)

ATEX number: EECS-BAS02ATEX1190X; Baseefa 08 Atex 0194x

MTL5525

Galvanic isolator for IS sounders

 Specifications

- Minimum output voltage: 7V at 48mA
- Maximum output voltage: 24V from 300Ω
- Current limit: 48mA
- Maximum current consumption: 100mA at 24VDC
- Safety description: V0=25VDC, I0=83.3mA, P0=0.52W, Um=253V RMS or DC

Audible and visual alarm devices

- Omni directional sounder output
- 2 stage alarm
- Independently selectable 2nd stage
- All units share a common explosion proof housing
- Reduced installation costs
- Meets UL, ATEX and IECEx Approvals
- ATEX approved for Gas & Dust
- Low current consumption
- Dual cable entry, cable in – cable out
- Aluminium enclosure
- Stainless steel fasteners
- Polycarbonate dome
- Lens guard provided as standard
- Weather proof flame retardant ABS horn
- Red Lens in flame retardant polycarbonate
- 32 selectable tones meeting international regulations

The below items are available on request only. Please check the last price list for lead time information.

Cable glands are not included.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
### Special Equipment

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)

### Explosion Proof Devices

#### Y06/R/24V

**EEX sounder 110dB 32 tones - IP66 - red**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Ø x h):</td>
<td>145 mm x 288 mm</td>
</tr>
<tr>
<td>Voltage:</td>
<td>24VDC</td>
</tr>
<tr>
<td>Current consumption:</td>
<td>570mA</td>
</tr>
<tr>
<td>Weight:</td>
<td>6.4 kg</td>
</tr>
<tr>
<td>Intrinsic safety Rating:</td>
<td>II 2G D EEx dlIB+H2 T135°C</td>
</tr>
</tbody>
</table>

**ATEX number:** Baseefa 02ATEX0222X

#### YL6/R/24V

**EEX Sounder-strobe 110dB 32 tones - IP66**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Ø x h):</td>
<td>145 mm x 420 mm</td>
</tr>
<tr>
<td>Voltage:</td>
<td>24VDC</td>
</tr>
<tr>
<td>Current consumption:</td>
<td>220mA (5J)</td>
</tr>
<tr>
<td>Weight:</td>
<td>5.08 kg</td>
</tr>
<tr>
<td>Intrinsic safety Rating:</td>
<td>II 2G D EEx dlIB+H2 T135°C</td>
</tr>
</tbody>
</table>

**ATEX number:** Baseefa 02ATEX0222X

#### V6/R/24V

**EEX Proof strobe - IP66 - red**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Ø x h):</td>
<td>145 mm x 276 mm</td>
</tr>
<tr>
<td>Voltage:</td>
<td>24VDC</td>
</tr>
<tr>
<td>Current consumption:</td>
<td>350mA</td>
</tr>
<tr>
<td>Weight:</td>
<td>5.8 kg</td>
</tr>
<tr>
<td>Intrinsic safety Rating:</td>
<td>II 2G D EEx dlIB+H2 T135°C</td>
</tr>
</tbody>
</table>

**ATEX number:** Baseefa 02ATEX0222X
Special Equipment

V6/B/24V  
EEX Proof strobe - IP66 - Blue lens

V6/G/24V  
EEX Proof strobe - IP66 - Green lens

V6/Y/24V  
EEX Proof strobe - IP66 - Yellow lens

V6/C/24V  
EEX Proof strobe - IP66 - Clear lens

Flame Detector

The below items are available on request only. Please check the last price list for lead time information.

FR-24006-01  
FIRERAY 2000 EExd

Explosion proof infrared beam smoke detector. End to end type, comprising control unit, explosion proof transmitter and receiver. Including test filter and 1x surface mount wall bracket (23835.00). ATEX approved.

Specifications

- Operating voltage range: 11.5 to 28VDC
- Transmitter current: 1.6 to 5.6mA
- Fire relay contacts: Normally open, VFCO 2A@30VDC, resistive
- Fault relay contacts: Normally closed 2A@30VDC, resistive
- Intrinsic safety Rating: II 2 G D IP 6x; EEx d IIB T6

CPD number: 0786-CPD-20196; ATEX number: Sira 03ATEX1504 issue3

FR-23835.00  
EExd wall bracket

Surface mount wall bracket for use with FIRERAY 2000 EExd. Detector not included.
Special Equipment

Flame detectors

40/40 series

The SharpEye 40/40 Series Flame Detectors provide the most comprehensive protection against hydrocarbon based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. The detectors provide early warning of fires at long distances with high immunity to false alarms. The 40/40 series designs are the highest performance, cost effective flame detectors currently on the market. The flame detectors include a stainless steel housing with a heated window, to eliminate condensation and icing; HART capabilities for digital communications; lower power requirements; and a compact, lightweight but highly durable and weather resistant design. The 40/40 flame detector series is highly reliable, with a newly extended 5-years warranty period and compliance with the IEC 61508 safety integrity requirements of SIL2.

Standard delivered with a special weather cover.

Test equipment for flame detectors is included in Part 6 of this catalogue.

The below items are available on request only. Please check the last price list for lead time information.

Specifications

- Dimensions (W x H x D): 90 mm x 114 mm x 156 mm
- Weight:
  - Detector (St.St.) 2.5 kg
  - Detector, aluminum 1.2 kg
- Ex Approved for Zone 1: ATEX and IECEx
- Operating voltage: 24 VDC nominal (18-32 VDC)
- Power consumption:
  - Standby: max 100mA
  - Alarm: max 150mA (add 50mA for heated window)

Approved: LPCB EN54-10, TÜV SIL2, ATEX/IECEX & CPD

40/40-U UV detector

Detector detects hydrocarbon based fuel and gas fires, invisible hydrogen flames and fires from hydrides, ammonia, silane and other organic materials with its unique UV solar blind sensor.

CPD approved: 0832-CPD-0979

40/40-UB UV detector with built in test kit

CPD approved: 0832-CPD-0980

40/40-L UV/IR dual detector

A dual UV and IR detector, comprising an IR sensor that operates at a wavelength of 2.5-3.0 μm and a UV solar blind sensor, the 40/40L detects hydrocarbon based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires.

CPD approved: 0832-CPD-0973
## Special Equipment

### Flame Detectors

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>CPD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>40/40-LB</td>
<td>UV/IR dual detector with built in test kit</td>
<td>CPD approved: 0832-CPD-0976</td>
</tr>
<tr>
<td>40/40-L4</td>
<td>UV/IR (4,5µm) dual detector</td>
<td>CPD approved: 0832-CPD-0974</td>
</tr>
<tr>
<td>40/40-L4B</td>
<td>UV/IR (4,5µm) dual detector with built in test kit</td>
<td>CPD approved: 0832-CPD-0975</td>
</tr>
<tr>
<td>40/40-I</td>
<td>Triple IR detector</td>
<td>CPD approved: 0832-CPD-0972</td>
</tr>
<tr>
<td>40/40-M</td>
<td>Multi sensor detector</td>
<td>CPD approved: 0832-CPD-0977</td>
</tr>
<tr>
<td>40/40-R</td>
<td>Single IR detector</td>
<td>CPD approved: 0832-CPD-0978</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Flame Detectors

RIV Series

RIV-601P/F

IP66 waterproof IR flame detector

The IR flame detector model RIV-601P/F is an electronic optical fire detecting device which responds immediately to the thermal infrared radiation emitted by fire and is turned to the flickering frequency of the flame to ignore sun and lamp light.

Specifications

- Dimensions (W x H x D): 180 mm x 85 mm x 65 mm
- Weight: 700g
- Current consumption: 13mA stand-by, 50mA in alarm
- Operating voltage: 24VDC
- IP rating: IP66 (Cast aluminium watertight case)
- Cable entry fitting: M25, internal diameter 13-18mm
- Operating temperature: -20°C to +60°C
- Relay output: One changeover relay contact rated 1A/30VDC
- Approved to: EN54-10 Class 1

Atex number: BVI 07 ATEX 0023

CPD number: 0786-CPD-21103; VdS number: G211093

RIV-601P/FA

RIV-601P/F IR flame detector with eex-proof enclosure

The RIV-601P/FA is the same IR flame detector as the RIV-601P/F, but in an explosion proof enclosure.

Specifications

- Protection rating: II 2 GD Ex d IIC T6 Ex tD IP66
- Max. case temperature: 85°C max
- Dimensions: 225 mm x 255 mm x 170 mm
- Weight: 11.5 kg

Atex number: BVI 07 ATEX 0023

SOR-873P

Variable direction stand for RIV-601P/F

SOA-875

Variable direction stand for RIV-601P/FA
Special Equipment

Mini 20/20MI Series

The SharpEye Mini-IR3 Flame Detector (20/20MI) is a high performance and high reliability compact, self-contained triple spectrum infrared flame detector which offers the highest immunity to false alarms for applications in a wide range of industrial and commercial facilities, where the threat of accidental fire involves hydrocarbon fuels such as gasoline, kerosene, diesel fuel, aviation jet fuels like JP-4, JP-5, JP-8, hydraulic fluids, paints and solvents, monomers and polymers like ethylene and polyethylene, natural gas (LNG), town gas and liquefied petroleum gas (LPG), hydrocarbon gases like methane, ethane, propane, butane, acetylene, propylene, etc.

The below items are available on request only. Please check the last price list for lead time information.

Specifications

- Spectral response: Three IR bands
- Field of View: 100° horizontal, 100° vertical
- Sensitivity range: 20/20MI-1: 10m to 40m;
  20/20MI-3: 2.5m to 10m
- Power supply: 18-32VDC
- Power consumption: Max. 50 mA in Alarm
- Relays: Alarm (NO) & fault (NC) volt free contact rated at 2A/30VDC
- Dimensions: 100 mm x 100 mm x 62 mm
- Weight: 1.2 Kg
- Relative humidity: Up to 95%
- Operating temperature range: -40°C to +70°C
- IP rating: IP66
- Approved to: EN54-10

CPD number: 0786-CPD-20916; Vds number: G207073

20/20MI-1-1-F
Triple IR Detector low powered - 10-40m - non ATEX

20/20MI-3-1-F
Triple IR detector low powered - 2.5-10m - non ATEX

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
Special Equipment

Mini 20/20MPI-R

20/20MPI-R

Triple IR detector flame detector, relay outputs

The 20/20 MPI-R is a high performance, compact triple IR (IR3) flame detector in a lightweight polycarbonate housing. It retains all the benefits if IR3 technology - long distance detection (up to 43 m) along with the highest immunity to false alarm. The IR3 detector is especially suited to indoor applications, such as airport terminals, train stations, storage areas, public buildings,...

This item is available on request only. Please check the last price list for lead time information.

Specifications

- Spectral response: Three IR bands
- Field of View: 100° horizontal, 90° vertical
- Power supply: 18-32VDC
- Power consumption: Max. 25 mA in Alarm
- Relays: Alarm (NO) & fault (NC) volt free contact rated at 2A/30VDC
- Dimensions: 119 mm x 74 mm
- Weight: 300gr
- Humidity: Up to 95%
- Operating temperature range: -40°C to +70°C
- IP rating: IP55
- Approved to: EN54-10

VdS number: 0786-CPR-21344

Flame detectors accessories

20/20-005

Swivel mount stainless steel for 20/20-M series

20/20-787

Air shield for mini series

20/20-794079-3

Commissioning tools kit for mini series

Used for change default delay and default sensitivity.

40/40-ADD-ST

Supplement for a stainless steel housing

40/40-ADD-85

Supplement for a calibration to 85°C

40/40-001

Tilt mount for 40/40 flame detectors

The tilt mount is an adjustable mounting bracket to allow the detector to be oriented towards the intended fire detection area to maximise coverage.
Special Equipment

**Flame Detectors**

40/40-777650  **Air shield stainless steel**

The air shield enables the connection of a compressed air line to provide an ‘air curtain’ that helps avoid accumulation of dirt on the detector window thereby reducing maintenance need and frequency in polluted or dirty environments.

40/40-777163  **Stainless steel weather cover**

The weather protector is designed to protect the detector from rain and snow and direct extreme temperatures from the sun (remember our detectors can operate in ambients up to 85°C without protection).

40/40-777166  **Laser pointer**

The laser detection area coverage pointer enables designers and installers to assess and optimise, on site, the actual location and area coverage (cone of vision) of our flame detectors.

40/40-789260-2  **Pole mount (U-BOLT) - 2”**

40/40-789260-1  **Pole mount (U-BOLT) - 3”**

40/40-777910  **Window protector (dust cap) for 40/40 flame detectors**

40/40-A0000231  **TCC-80 RS-232 to RS-485 convertor**

Serial port powered RS-232 to TS-485 convertor with 15 KV ESD Surge.

40/40-794079-5  **USB connection kit for PC**

Includes USB to RS232 convertor, RS232 to RS485 convertor, cable and software.

40/40-777820  **Handheld pocket pc diagnostics kit**

Mini PC kit containing all configuration software for 20/20 and 40/40 series flame detectors.

For spare parts, please refer to § Spare Parts at the end of this chapter (04. Special Equipment)
### Spare parts

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Spare for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-FL53</td>
<td>Replacement filter for A300 Series 20PPI (Pack of 10)</td>
<td>A300 series aspiration</td>
</tr>
<tr>
<td>02-FL56</td>
<td>Replacement filter for A300 Series 45PPI (Pack of 10)</td>
<td>A300 series aspiration</td>
</tr>
<tr>
<td>20-LA00015-03</td>
<td>Replacement key to open an A300 housing</td>
<td>A300 series aspiration</td>
</tr>
<tr>
<td>BATV-23</td>
<td>Spare battery for FKAC 2100R</td>
<td>FKAC</td>
</tr>
<tr>
<td>CR-123</td>
<td>Main lithium battery for wireless devices</td>
<td>Wireless</td>
</tr>
<tr>
<td>CR-2032</td>
<td>Back up lithium battery for wireless devices</td>
<td>Wireless</td>
</tr>
<tr>
<td>CR-4148</td>
<td>Battery pack for FDKM 2100 R</td>
<td>FDKM</td>
</tr>
<tr>
<td>F-A3384-000</td>
<td>Integral filter for FAAST 8100E</td>
<td>FAAST</td>
</tr>
<tr>
<td>F-AF-2.0</td>
<td>Aspiration Reducing Film Sheet 2.0mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-2.5</td>
<td>Aspiration Reducing Film Sheet 2.5mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-3.0</td>
<td>Aspiration Reducing Film Sheet 3.0mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-3.6</td>
<td>Aspiration Reducing Film Sheet 3.6mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-4.0</td>
<td>Aspiration Reducing Film Sheet 4.0mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-4.6</td>
<td>Aspiration Reducing Film Sheet 4.6mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-5.0</td>
<td>Aspiration Reducing Film Sheet 5.0mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-5.6</td>
<td>Aspiration Reducing Film Sheet 5.6mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-AF-6.0</td>
<td>Aspiration Reducing Film Sheet 6.0mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>F-A-LC-A</td>
<td>Language Card Faast 8100e</td>
<td>FAAST</td>
</tr>
<tr>
<td>F-BS</td>
<td>Banderole for Suction- Reducing Foil</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>FL-IF-6</td>
<td>FAAST LT integral filters (pack of 6)</td>
<td>FAAST LT</td>
</tr>
<tr>
<td>F-LT-EB</td>
<td>Earth bar for FAAST-LT</td>
<td>FAAST LT</td>
</tr>
<tr>
<td>F-PC</td>
<td>Pipe cutter, for pipes up to 27mm</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>MSD/A</td>
<td>Dome for MS2/ Amber</td>
<td>MS2</td>
</tr>
<tr>
<td>MSD/B</td>
<td>Dome for MS2/ Blue</td>
<td>MS2</td>
</tr>
<tr>
<td>MSD/R</td>
<td>Dome for MS2/ Red</td>
<td>MS2</td>
</tr>
<tr>
<td>NAS-2 FIL</td>
<td>NAS2 Main internal filter cartridge</td>
<td>NAS aspiration</td>
</tr>
<tr>
<td>NAS-2 FIL-INT</td>
<td>NAS-2 Second internal filter cartridge</td>
<td>NAS aspiration</td>
</tr>
<tr>
<td>NAS-2 KEYPAD</td>
<td>Replacement keypad for NAS-2</td>
<td>NAS aspiration</td>
</tr>
<tr>
<td>RF-FTX</td>
<td>Replacement filter for HPX-751E</td>
<td>HPX-751E</td>
</tr>
<tr>
<td>SAHEP-KEY</td>
<td>Spare key for SAHEP-4N</td>
<td>SAHEP</td>
</tr>
<tr>
<td>SAHEP-PCB</td>
<td>Replacement PCB for SAHEP-4N</td>
<td>SAHEP</td>
</tr>
<tr>
<td>SAHEP-PLEXINOTIFIER</td>
<td>Plexi breakglass for SAHEP-4N (with Notifier logo)</td>
<td>SAHEP</td>
</tr>
<tr>
<td>SG-M210</td>
<td>Spare test key for SGCP100</td>
<td>Wireless</td>
</tr>
<tr>
<td>VSP-005</td>
<td>Filter cartridge for Vesda</td>
<td>Vesda aspiration</td>
</tr>
<tr>
<td>VSP-850-G</td>
<td>External filter for very harsh environment</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>VSP-850-R</td>
<td>Inline filter red for tube 25mm &amp; 3/4&quot;</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>VSP-855-20</td>
<td>Replacement filter element for VSP-850-G (pack of 20)</td>
<td>Aspirating systems</td>
</tr>
<tr>
<td>VSP-855-4</td>
<td>Replacement filter element for VSP-850-G (pack of 4)</td>
<td>Aspirating systems</td>
</tr>
</tbody>
</table>
Gas Detection Systems

NOTIFIER®
by Honeywell
Gas Detection Systems

Notes
Unipoint Controllers

The Unipoint controllers are available on request only. Please check the last price list for lead time information.

The Unipoint is a simple DIN rail mounted controller offering integrators a flexible and low cost solution to incorporate flammable, toxic or oxygen gas detection into their control systems. Unipoint can be easily installed into any plastic or metal enclosure for use indoor or outdoor and even in potentially explosive atmospheres. With the addition of one of the range of flammable, toxic or oxygen detectors, systems may be configured to monitor gases in a wide range of applications from car parks and boiler houses to analyzer shelters or crane cabs in offshore facilities.

Each controller is supplied with all necessary removable terminals, DIN rail socket and power connector. Each controller contains a buzzer and 3 (NO-NC) alarm relays and 1 (NO-NC) fault relay. Alarm levels are configurable per controller. Inputs for remote reset and inhibit functionality are available on each controller. Password protection for configuration menu is possible.

Please note that a specific training is required for the installation of this item.

Specifications

- **IP rating:** Indoor, IP3x, to BS EN 60529:1992 (controller to be installed in suitable enclosure)
- **Weight:** 225g (controller only)
- **Operating temperature range:** -10°C to +40°C
- **Relative humidity:** 10 to 90% (non-condensing)
- **Operating pressure range:** 90-110kPa
- **Storage:** -25°C to +60°C, 20 to 80%RH (non-condensing)

Approvals:
- EMC/RFI EN50270; Electrical Safety EN61010, UL61010b
- Performance ATEX measuring function EN60079-29-1; Other CE, TUV

Z-2306B2000

Unipoint controller mV input version

Compatible with combustible gas detectors.

Z-2306B1000

Unipoint controller mA input version

Compatible with toxic gas detectors (4-20mA).

Z-ZDINPSUX1

DIN rail mounted power supply 24Vdc - 1A

Up to 4 Unipoint controller modules can be connected.
Gas Detectors

Signalpoint Range

The Signalpoint range of flammable, toxic and oxygen gas detectors offer users a low cost solution to their indoor gas monitoring needs. Supplied with an integral pre-wired junction box, the detector can be installed using conduit or cable and glands depending on individual site standards. Two basic arrangements are provided. Flammable detectors offer mV bridge output for use with dedicated gas control systems (such as Unipoint) and are certified under ATEX for use in potentially explosive atmospheres. Toxic and Oxygen detectors are designed for use in non explosive atmospheres. They are 2 wire 4-20mA loop powered and can be used with PLC or dedicated gas control systems.

The Signalpoint range is available on request only. Please check the last price list for lead time information.

Specifications

- Material: Sensor Polyphenylene Sulphide (PPS)
  Integral Junction Box: Impact resistant Nylon.
- IP rating: IP54 in accordance with EN60529:1992
  Continuous: 20-90% RH (non condensing), Intermittent: 10-99% RH (non condensing)
- Operating pressure: 90-110kPa
- Storage conditions: 0°C to +25°C
- Weight:
  Flammable (0-100%LEL): 465g
  Toxic & Oxygen: 495g
- Certification:
  Flammable (0-100%LEL): Ex II 2G EEx e d IIC T4; BAS98ATEX2085X
  Toxic & Oxygen: Safe area use only
- Standards: Toxic & Oxygen: MC to BS EN50081 part 1; BS EN50082 part 2; Performance to EN45544

Z-2106B1100 Signalpoint 0-100% LEL comb. detector (mV output)
IP54; ATEX II2G Ex dc IIC T4 (T°amb. = -30°C to +40°C); BAS98ATEX2085X.
Average life time: 5 years.

Signalpoint Toxic

Z-2106B1305 Signalpoint CO 0-100 ppm toxic detector (mA output)
IP54 - Only to be used in safe zones. Average life time is 48 months.

Z-2106B1306 Signalpoint CO 0-200 ppm toxic detector (mA output)
IP54 - Only to be used in safe zones. Average life time is 48 months.

Z-2106B1307 Signalpoint CO 0-500 ppm toxic detector (mA output)
IP54 - Only to be used in safe zones. Average life time is 48 months.
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Life Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-2106B1300</td>
<td>Signalpoint H2S 0-20 ppm toxic detector (mA output)</td>
<td>48 months</td>
</tr>
<tr>
<td>Z-2106B1301</td>
<td>Signalpoint H2S 0-50 ppm toxic detector (mA output)</td>
<td>48 months</td>
</tr>
<tr>
<td>Z-2106B1302</td>
<td>Signalpoint H2S 0-100 ppm toxic detector (mA output)</td>
<td>48 months</td>
</tr>
<tr>
<td>Z-2106B1316</td>
<td>Signalpoint O2 0-25%VOL toxic detector (mA output)</td>
<td>12 months</td>
</tr>
<tr>
<td>Z-2106B1310</td>
<td>Signalpoint Cl2 0-5 ppm toxic detector (mA output)</td>
<td>18 months</td>
</tr>
<tr>
<td>Z-2106B1311</td>
<td>Signalpoint Cl2 0-15 ppm toxic detector (mA output)</td>
<td>18 months</td>
</tr>
<tr>
<td>Z-2106B1313</td>
<td>Signalpoint NH3 0-50 ppm toxic detector (mA output)</td>
<td>18 months</td>
</tr>
<tr>
<td>Z-2106B1314</td>
<td>Signalpoint NH3 0-1000 ppm toxic detector (mA output)</td>
<td>18 months</td>
</tr>
</tbody>
</table>
Gas Detection Systems

Sensepoint range

The Sensepoint range of flammable, toxic and oxygen gas detectors offer users a low cost solution to their gas monitoring needs, in or out of doors and even in potentially explosive atmospheres. Supplied with a pre-wired junction box, a detector can be installed using conduit or armored cable and glands depending on individual site standards. Sensepoint flammable and toxic gas detectors are designed for use in potentially explosive atmospheres and allow for hands free, unhindered access, to terminals via the hinged lid of the junction box. Installation should follow national guidelines using suitably approved armored cable and glands or conduit.

The Sensepoint range is available on request only. Please check the last price list for lead time information.

Specifications

- **IP rating:** IP65 standard, IP66 with weather protection in accordance with EN60529:1992
- **Operating temperature:** Dependent upon gas type and certification
- **Relative humidity:** Continuous: 20-90% (non-condensing) Intermittent: 10-99% (non-condensing)
- **Operating pressure:** 90-110kPa
- **Storage conditions instrument:** -40°C to +50°C

EMC to EN54027, Flammable to EN60079-29-1, Toxic to EN445544 (only H2S)

Z-SPSTAXF1

0-100% LEL methane detector (mV output)

IP65; ATEX II2GD EEx d IIC T6 (T°amb. = -55°C to +55°C). Average life time: 5 years.

Z-SPSTAXC2

0-500 ppm carbon monoxide (CO) detector (mA output)

IP65; ATEX II2GD EEx d IIC T4 (T°amb. = -20°C to +65°C). Average life time: 48 months.

Z-SPSTAXO1

0-25% VOL oxygen (O2) detector (mA output)

IP65; ATEX II2GD EEx d IIC T4 (T°amb. = -20°C to +65°C). Average life time: 12 months.

Z-SPSTAXA1

0-50 ppm ammonia (NH3) detector (mA output)

IP65; ATEX II2GD EEx d IIC T4 (T°amb. = -20°C to +65°C). Average life time: 18 months.

Z-SPSTAXA2

0-1000 ppm ammonia (NH3) detector (mA output)

IP65; ATEX II2GD EEx d IIC T4 (T°amb. = -20°C to +65°C). Average life time: 18 months.

Other types of gas detectors are available on demand.
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

### Sensepoint XCD range

The standard XCD detector is supplied including one of three types of plug-in stainless steel sensor. These sensors simply plug into the socket at the bottom of the transmitter and the transmitter recognizes the sensor type and automatically configures itself accordingly.

The Catalytic sensor is used to detect flammable gases in the range 0-100%LEL. The Infrared (IR) sensors are used for detecting Hydrocarbon gases in the range of 0-100%LEL and 0-100%V/V, as well as Carbon Dioxide (CO2) in the range 0-2.00%V/V.

The Electrochemical Cell (ECC) sensor is used to detect Oxygen and toxic gases; Carbon Monoxide (CO), Hydrogen Sulphide (H2S) and Hydrogen (H2).

The Sensepoint XCD range is available on request only. Please check the last price list for Lead time information.

### Specifications

- **Weight:** Stainless Steel SS316: 5 kg
  Alu LM25: 2 kg
- **IP rating:** IP66 as standard in accordance with EN60529:1992
- **Relative humidity:** Continuous: 20-90% (non-condensing)
  Intermittent: 10-99% (non-condensing)
- **Operating pressure:** 90-110kPa
- **Storage conditions instrument:** -25°C to +65°C
- **Operating temperature:** Depends on gas type and certification

### Sensepoint XCD - Stainless Steel SS316

**Z-SPXCDASMF**X

SENSEPOINT XCD flammable CAT 0-100% LEL

ATEX/IECEX & AP approved. (20 to 100%LEL, 10%LEL) with 316SS, M20 entry.

**Z-SPXCDASMR**X

SP XCD CH4 (methane) IR 0-100% LEL

ATEX/IECEX & AP approved. (20 to 100%LEL, 10%LEL) with 316SS, M20 entry.

**Z-SPXCDASMO1**

SP XCD oxygen 25.0% /Vol

ATEX/IECEX & AP approved. With 316SS, M20 entry.
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-SPXCDASMHX</td>
<td>SP XCD hydrogen sulfide 0-50 ppm</td>
<td>ATEX/IECEX &amp; AP approved. (10.0 to 100.0 ppm, 1 ppm) with 316SS, M20 entry.</td>
</tr>
<tr>
<td>Z-SPXCDASMCX</td>
<td>SP XCD carbon monoxide 0-500 ppm</td>
<td>ATEX/IECEX &amp; AP approved. (100 to 1000 ppm, 100 ppm) with 316SS, M20 Entry.</td>
</tr>
<tr>
<td>Z-SPXCDASMG1</td>
<td>SP XCD hydrogen 0-1000 ppm</td>
<td>ATEX/IECEX &amp; AP approved. With 316SS, M20 Entry.</td>
</tr>
<tr>
<td>Z-SPXCDASMB1</td>
<td>ATEX/IECEX &amp; AP approved SP XCD carbon dioxide IR 0-2.00 %VO</td>
<td>ATEX/IECEX &amp; AP approved. With 316SS, M20 Entry.</td>
</tr>
</tbody>
</table>

**Sensepoint XCD - Alu LM25**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-SPXCDALMFX</td>
<td>Sensepoint XCD flammable CAT 0-100% LEL</td>
<td>ATEX/IECEX &amp; AP approved. (20 to 100% LEL, 10% LEL) with LM25, M20 entry.</td>
</tr>
<tr>
<td>Z-SPXCDALMRX</td>
<td>SP XCD CH4 (methane) IR 0-100% LEL</td>
<td>ATEX/IECEX &amp; AP approved. (20 to 100% LEL, 10% LEL) with LM25, M20 entry.</td>
</tr>
<tr>
<td>Z-SPXCDALMO1</td>
<td>SP XCD oxygen 25.0% / Vol</td>
<td>ATEX/IECEX &amp; AP approved. With LM25, M20 entry.</td>
</tr>
<tr>
<td>Z-SPXCDALMHX</td>
<td>SP XCD hydrogen sulfide 0-50 ppm</td>
<td>ATEX/IECEX &amp; AP approved. (10.0 to 100.0 ppm, 1 ppm) with LM25, M20 entry.</td>
</tr>
<tr>
<td>Z-SPXCDALMCX</td>
<td>SP XCD carbon monoxide 0-500 ppm</td>
<td>ATEX/IECEX &amp; AP approved. (100 to 1000 ppm, 100 ppm) with LM25, M20 Entry.</td>
</tr>
<tr>
<td>Z-SPXCDALMG1</td>
<td>SP XCD hydrogen 0-1000 ppm</td>
<td>ATEX/IECEX &amp; AP approved. With LM25, M20 Entry.</td>
</tr>
<tr>
<td>Z-SPXCDALMB1</td>
<td>ATEX/IECEX &amp; AP approved SP XCD carbon dioxide IR 0-2.00%VO</td>
<td>ATEX/IECEX &amp; AP approved. With LM25, M20 Entry.</td>
</tr>
</tbody>
</table>
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems)

### Accessories for Sensepoint XCD

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-S3KCAL</td>
<td>Calibration cup</td>
</tr>
<tr>
<td>Z-SPXCDCC</td>
<td>Collecting cone for use with lighter than air gases</td>
</tr>
<tr>
<td>Z-SPXCDDMK</td>
<td>Duct mounting kit</td>
</tr>
<tr>
<td>Z-SPXCD MTBR</td>
<td>Mounting bracket (inc. bolts, nuts, brackets)</td>
</tr>
<tr>
<td>Z-SPXCDSDP</td>
<td>Sunshade / Deluge protection</td>
</tr>
<tr>
<td>Z-00780-A-0100</td>
<td>ATEX approved junction box (Explosion proof)</td>
</tr>
</tbody>
</table>

The below items are available on request only. Please check the last price list for lead time information.
The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.

G-100 Gas Control Panel

The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.

G-100 Gas Control Panel

The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.

G-100 Gas Control Panel

The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.

G-100 Gas Control Panel

The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.

G-100 Gas Control Panel

The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.

G-100 Gas Control Panel

The G-100 is a modular micro-processor controlled control panel designed to supervise 4-20mA TOXIC and EXPLOSIVE gas detectors. The system can support up to 32 programmable outputs thanks to 2 optional modules (SK-8R & SK-16R) and a 2-serial interface optional module (G-100 2SE). The control panel may detect 3 alarm levels from each zone and each alarm level may be associated to a particular output. The G-100 features are tactile membrane keypad with symbols associated to each key and a LCD back-lighted.

Only available in English.

The below items are available on request only. Please check the last price list for lead time information.
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue.

For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

**BDS Gas Detectors**

The below items are available on request only. Please check the last price list for lead time information.

Not compatible with the Notifier G100 gas control panels!

---

**BDS-EP**

**Catalytic explosive gas detector**

These detectors use a catalytic sensible element for combustible gas. The detector is in a self extinguishing plastic dust proof case with an IP54 protection degree. (Methane, Propane & Butane)

**Specifications**

- **Type of gas detected:** Methane
- **Sensor:** Catalytic
- **Power supply:** 24 VDC +/- 15% (BDS) 10 - 30 VDC (BD110)
- **Range value (set in factory):** 100% L.E.L.
- **Response time:** < 10 seconds (at 90% of measure)
- **Suggested recalibration time:** Max 12 months
- **Stand-by current consumption:** 80 mA (@10 VDC), 50 mA (@30 VDC)
- **Alarm current consumption (27.6 Vnom.):** 65 mA
- **Operating temperature:** -10° C + 40° C

---

**BDS-CO**

**Semi-conductor CO detector in dust-tight enclosure**

BDS-CO is a double threshold gas detector (pre-alarm and alarm), able to detect carbon monoxide concentration via a semi conductor sensible element. Available in an IP54 protection degree case, BDS-CO detector can be used in many applications, such as industry, fire detection systems, building automation.

**Specifications**

- **Type of gas detected:** Carbon Monoxide
- **Power supply:** 24 VDC +/- 15%.
- **Stand by current consumption:** 21 mA.
- **Alarm total current consumption:** 55 mA.
- **Range value:** 200 ppm (set in factory).
- **Analog signal current (@ 24 VDC):** pre-alarm = 10 mA; alarm = 20 mA.
- **Connection to the control panel:** 3 wires (1 analog signal + 2 power supply)
MULTISCAN++ S1

The MULTISCAN++S1 is a gas detection control unit designed to meet the widest range of flexibility required by the market. The control panel is based on a powerful microprocessor which provides a wide range of self-diagnostic procedures to detect and locate possible faults. Extremely flexible and reliable, it can manage up to 64 or 128 or 256 gas detectors (according to the different 4 versions). The detectors can be either of addressable type, directly connected on buses, or 4-20mA analogical types connected via 8-input STG/IN8-S remote modules.

System architecture also includes 8 on-board machine relays and the potential to expand outputs up to 256 using remote STG/OUT16-S modules and 8-relay boards. Up to 4 serial buses can be connected to the unit. The unit allows for three alarm thresholds to be set for each detector. The alarm threshold activation mode changes according to the type of gas detection profile and connected detector.

The unit is inserted in a plastic box complete with 27 Vdc 4 A power supply.

- ATEX and SIL 1 certified (EN50402)
- Up to 4 open RS485 (EIA-485) galvanic isolated loops
- Up to 256 inputs (both 4-20 mA or intelligent loop daisy-chained)
- Up to 256 O/C or relay outputs via remote modules and 8 pre-configured relays onboard the control unit.
- Event log accessible from the front display or to be PC downloaded.
- RS232 serial port for PC connection for programming or supervising the system via a specific software
- Parallel port for printer connection.

**Specifications**

- **Housing:** plastic box, IP65 or 19” 6U (HE) rack for 256 version
- **Dimensions (L x H x D):** 470 mm x 426 mm x 148 mm
- **Inputs:** max. 256 RS485 comm. gas detectors bus connected (IDI version) or 4-20mA through STG/IN8-S modules.
- **Outputs:** 8 relays on the unit + 128 or 256 open collector outputs on STG/OUT16-S modules (optional STG/8REL relay board)
- **Serial ports:** 4 RS485 ports (2 for 65 version)
  1 RS232 for PC connection
- **Power consumption:** Max 10 VA
- **Display:** Graphic Liquid Crystal Display (LCD)
- **Visual indications LED:** Double 9 LED raw
- **Operating temperature:** 0-55°C
- **Storage:** -20 / +60°C
- **Relative humidity:** 15-85% (non-condensing)
- **Storage:** 5-85% (non condensing)

**Certification:** IMG12ATEX002X; C-IS-213297-01

The MULTISCAN++S1 range is available on request only. Please check the last price list for Lead time information.

---

**Block diagram for MULTISCAN++ S1**

![Block diagram for MULTISCAN++ S1](image-url)

1. 4-20 mA analog gas detectors
2. Analog 8 input module STG/IN8N or S
3. 2 Twisted wires for the RS485 bus + 2 wires for the power supply (12-24Vdc)
4. Gas detectors with RS485 output
5. 16 O/C output module STG/OUT16N or S
6. 8 relay STG/8REL module

Text and diagrams regarding MULTISCAN++ S1 detectors are included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).
Gas Detection Systems

Sensitron Gas Detection Panels

ST.MTS/S1
MULTISCAN++ S1 gas control panel, rack version; 256 gas detectors

4 x RS485 type open bus lines or 2 closed loops. 256 Analog 4-20 mA gas detectors connected through remote 8-input modules or intelligent gas detectors daisy chained to the RS485 control panel's loops and 8 4-20mA input boards. 8 relay output and up to 256 O/C or relay outputs via remote modules. The panels comes complete with 1 parallel printer port and 1 RS232 serial port for PC connection. Housed on a 19” 3 U rack (24 VDC power supply is required).

ST.MTS/S1-256B
MULTISCAN++ S1 gas control panel, ABS box; 256 gas detectors

As above but in IP65 ABS box. 230 VAC power supply.

ST.MTS/S1-128B
MULTISCAN++ S1 gas control panel, ABS box; 128 gas detectors

As above but in IP65 ABS box. 230 VAC power supply.

ST.MTS/S1-64B
MULTISCAN++ S1 gas control panel, ABS box; 64 gas detectors

As above but in IP65 ABS box. 230 VAC power supply. 2 RS485 type open bus lines or 1 closed loop.

ST.G/IN8-S
8-input remote max 16 modules

High safety 8-input remote module with improved performance for MULTISCAN++S1. Max 16 modules per line for a total of 256 detectors connectable to the system.

ST.G/OUT16-S
16-output remote 8 modules

High safety 16-output remote module (Open collector type) with improved performance for MULTISCAN++S1. Max 8 modules per line.

ST.G/8REL
Plug and play relay board

Plug and play relay board to be connected to STG/OUT16 to provide 8 relay outputs.

ST.G/SER++
Additional Serial board

Additional Serial board to implement serial lines in Multiscan++S1.

VMB/267V40
Power supply 24 Vdc/4A

Metal Cabinet with enclosed power supply to house one of the above remote cards. 24 VDC 4A.

ST.G/BOX
IP55 Plastic box

IP55 Plastic box to house one ST.G/IN8-S or ST.G/OUT16-S card.

Test and calibrating equipment for gas detectors is included in part 6 of this catalogue.
For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems)
**Sensitron Gas Detection Panels**

### Sensox IDI+ Gas Control Panel

SENSOX IDI+ has been designed for light industrial applications and can be connected to max. 32 intelligent gas detectors daisy chained on the RS 485 bus line. A high brightness display provides an ongoing reading of the concentration being measured and, in case of an alarm, the alarm threshold attained and the respective channel. Each threshold or function is visualised by a double LEDs raw.

SENSOX IDI+ provides 4 relays output: three associated to the alarm thresholds and one to fault. The panel also features the implementation of further 32 optional outputs via 2 ST.G/OUT16-N remote cards.

The unit comes into a metal cabinet, complete with 24VDC/5A power supply and offers the possibility to allocate 2 back-up batteries (max. 12V/7Ah).

SENSOX IDI+ is SIL1 and ATEX certified according to EN60079-29-1

### Specifications

- **Housing:** ABS IP65 rated box
- **Dimensions (L x H x D):** 486 mm x 288 mm x 148 mm
- **Relay contact rating:** 1A/24VDC /60Va
- **Power consumption:** Max. 6VA
- **Backup battery:** 2 x 12V/7Ah max.
- **Operating temperature:** 0°C to +55°C
- **Relative humidity:** 15-85% (non-condensing)

**ATEX number:** IMG09ATEX027x

### Block diagram for Sensox IDI+

- **Control panel**
- **ST.SX/IDI+** Microprocessor based control panel

Microprocessor based control panel to manage up to 32 "IDI" gas detectors. 4 output upgradeable to 36 by connecting two remote 16-output cards. House in IP65 rated ABS box with enclosed 24 VDC/5A power supply.

---

Test and calibrating equipment for gas detectors is included in part 6 of this catalogue.

For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems)
Gas Detection Systems

STPL4+ Gas Control Panel

The STPL4+ gas control unit represents the best technology for the detection of flammable, toxic or oxygen compounds in small systems.

The STPL4+ has 4 intelligent 4-20mA inputs that can be extended to 8 by using the 4-input expansion board (ST.PL4/ESP), easy to plug in the control unit.

The panel is housed in a IP65 ABS box with a 12vdc 1.5A power supply integrated. Mode status LEDs for alarms and fault warning along with the backlit LCD display provide real time gas concentration reading.

An internal buzzer provides an audible alarm that will activate according to the programmed alarm thresholds.

Alarms are user selectable and for each input it is possible to set the type of detector, its full scale range and the alarm thresholds.

The panel can be easily programmed via the 3 position key-switch for Set, Unset and Program along with the Reset and Acknowledge push buttons.

The panel comes complete with 5 output relays: one for each threshold (AL1, AL2, AL3), 1 for fault (FLT) and 1 auxiliary and freely programmable.

By using the on 4-input expansion board, the panel can benefit of further 16 Open-collector outputs linked to the second and third alarm thresholds (AL2 - AL3) of each detector being connected.

The STPL4+ box can fit a 12Vdc 7Ah back-up battery to ensure the system correct working when the main power supply fails.

Specifications

- Housing: ABS IP65 rated box
- Dimensions (L x H x D): 486 mm x 288 mm x 148 mm
- Microprocessor: 8 BIT
- Inputs: 4 intelligent inputs 4-20mA expandable to 8 by adding the ST.PL4/ESP board
- Outputs: 5 relays on board the panel. 16 O/C outputs available on the ST.PL4/ESP board
- Display: Backlit LCD; 16 characters on 2 rows
- LED indications: Main power supply; AL1; AL2; AL3; Fault; Battery operated
- Power supply: 230Vac +/- 10%
- Power consumption (@ 12Vdc): 80mA normally; 160mA in alarm; 240mA with ST.PL4/ESP
- Operating temperature: 0°C to +50°C
- Relative humidity: 15-85% (non-condensing)

Block diagram for STPL4+

For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems)
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

Honeywell | Fire Safety         Benelux region         Catalogue version 2.1

**Gas Detection Systems**

**Sensitron Gas Detectors**

**STPL4+**  
Microprocessor based control panel  
Gas control panel to manage up to 4 "IDI" gas detectors. Extendable to 8 by using the 4-input expansion board ST.PL4/ESP.

**ST.PL4/ESP**  
4 Channel extension card for STPL4+

**Sensitron gas detectors**

**SMART3 NC Series**

Gas detectors series SMART3 NC have been designed to offer cost effective products with Hi-Tech professional features for car parks and non-classified areas. Available only for Methane, LPG, Petrol Vapours, CO, NO2 and CO2, these detectors employ a professional catalytic sensor for flammable gas detection, an electrochemical cell for CO and an infrared sensor for the CO2 detection. The SMART3 NC provide an analog 4-20 mA output signal and can be implemented with additional features to allow the instrument to have an RS485 communication or three-relay outputs.

SMART3 NC gas detectors are IP55 rated. Estimated sensor lifetime is 4 years.

**SMART3 NCPK - For car parks**

**S1450CO**  
CARBON MONOXIDE (CO) detector  
Range value interface: 0-300 ppm, 4-20 mA.

The below SMART3 NCPK gas detectors are available on request only. Please check the last price list for lead time information.

**S2396VB**  
PETROL VAPOURS detector  
Range value interface: 4-20mA.

**S1451ND**  
NO2 detector  
Range value interface: 4-20mA.

**SMART3 NC - Flammable gas detectors for non classified areas**

**S2396ME**  
METHANE detector  
0-100% LEL. Range value interface: 4-20mA.

**S2396GP**  
LPG detector  
0-100% LEL. Range value interface: 4-20mA.
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue.

For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

S2401CO2
CARBON DIOXIDE (CO2) detector

Range value interface: 0-5000 ppm, 4-20 mA.

Item available on request only. Please check the last price list for lead time information.

SMART3G-D2

Designed to meet with tough industrial requirements, the SMART3G-D2 allows monitoring toxic and flammable contents in harsh environments and classified areas. They offer a 4-digit back-lit display and 5 status mode LED for the gas concentration reading.

Ideal in harsh environments, the SMART3G-D2 feature non intrusive calibration for an accurate and easy adjustment via Hall-effect switches, without opening the instrument and declassifying the area.

They can reliably monitor flammable compounds (%LEL), toxic compounds in ppm, Oxygen and CO2 contents in % by Vol.

SMART3G-D2 features:
- Non-intrusive one man calibration via Hall effect switches
- 4-digit display and 5 mode status LEDs
- Standard 4-20 mA 3 wires output
- Optional 3 relays output
- Optional RS485 interface for Modbus communication to make the detectors communicate to MULTISCAN++ and SENTOX IDI+ control panels.
- Zero tracking to maintain the zero point steady from possible drifts
- Ongoing system self diagnosis
- Wide range of sensors and detectable gases
- Wide range of accessories for installation and maintenance
- Easy sensor replacement

SMART3G-D2 Flammable Gas (with Catalytic sensor)

The below items are available on request only. Please check the last price list for lead time information.

Range value interface: 4-20 mA, 0-100%LEL.

S2157ME
METHANE detector

S2157GP
LPG detector

S2157PR
PROPANE detector

S2157BU
BUTANE detector

S2157VB
PETROL VAPOURS detector
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

SMART3G-D2 IRL - Flammable Gas (with infrared sensor)

The below items are available on request only. Please check the last price list for lead time information.

Range value interface: 4-20 mA, 0-100%LEL.

- S2602ME  METHANE detector
- S2602PR  PROPANE detector
- S2602BU  BUTANE detector

SMART3G-C2 - Gas detectors for Zone 1 Category 2 areas

Designed to meet with tough industrial requirements, the SMART3G-C2 allows monitoring toxic and flammable contents in industrial environments and classified areas.

The SMART3G-C2 detectors can reliably monitor flammable compounds (%LEL), toxic compounds in ppm, Oxygen and CO2 contents in % by vol.

SMART3G-C2 features:
- Standard 4-20 mA 3 wires output
- Optional 3 relay output
- Optional RS485 interface for Modbus communication to make the detectors communicate to MULTISCAN++ and SENTOX IDI+ control panels.
- Zero tracking to maintain the zero point steady from possible drifts
- Ongoing system self diagnosis
- ATEX II2G (GD with optional adapter) and SIL 1 certified (EN50402)
- Wide range of sensors and detectable gases
- Wide range of accessories for installation and maintenance
- Easy sensor replacement

The below items are available on request only. Please check the last price list for lead time information.

Range value interface: 4-20 mA, 0-100%LEL.

- S2097ME  METHANE detector
- S2097GP  LPG detector
- S2097BU  BUTANE detector
- S2097PR  PROPANE detector
- S2097VB  PETROL VAPOURS detector
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

<table>
<thead>
<tr>
<th>Detector Type</th>
<th>Description</th>
<th>Range Value Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2641O2</td>
<td>OXYGEN (O2) detector</td>
<td>0-25% Vol., 4-20mA</td>
</tr>
<tr>
<td>S2131CO</td>
<td>CARBON MONOXIDE (CO) detector</td>
<td>0-500 ppm, 4-20mA</td>
</tr>
<tr>
<td>S2133AM</td>
<td>AMMONIA (NH3) detector</td>
<td>0-200 ppm, 4-20mA</td>
</tr>
<tr>
<td>S2135AM</td>
<td>AMMONIA (NH3) detector</td>
<td>0-1000 ppm, 4-20mA</td>
</tr>
<tr>
<td>S2137HS</td>
<td>HYDROGEN SULPHIDE (H2S) detector</td>
<td>0-50 ppm, 4-20mA</td>
</tr>
<tr>
<td>S2145NO</td>
<td>NITRIC OXIDE (NO) detector</td>
<td>0-100 ppm, 4-20mA</td>
</tr>
</tbody>
</table>
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

SMART3G-D3 - Gas detectors with display, for zone 2 category 3 areas

Designed to meet with industrial requirements, the SMART3G-D3 allow monitoring toxic and flammable contents in areas classified as zone 3. They offer a 4-digits back-lit display and 5 mode status LEDs for the gas concentration reading and feature non intrusive calibration for an accurate and easy adjustment via Hall-effect switches, without opening the instrument and declassifying the area. The SMART3G-D3 detectors can reliably monitor flammable compounds (%LEL), toxic compounds in ppm, Oxygen and CO2 in % by vol.

SMART3G-D3 features:
- Non-intrusive one man calibration via Hall effect switches
- 4-digit display and 5 mode status LEDs
- Standard 4-20 mA 3 wires output
- Optional 3 relays output
- Optional RS485 interface for Modbus communication to make the detectors communicate to MULTISCAN++ and SENTOX IDI+ control panels.
- Zero tracking to maintain the zero point steady from possible drifts
- Ongoing system self diagnosis
- ATEX II3G (GD with optional adapter) and SIL 1 certified (EN50402)
- Wide range of sensors and detectable gases
- Wide range of accessories for installation and maintenance
- Easy sensor replacement

The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2156ME</td>
<td>METHANE detector</td>
</tr>
<tr>
<td>S2156GP</td>
<td>LPG detector</td>
</tr>
<tr>
<td>S2156PR</td>
<td>PROPANE detector</td>
</tr>
<tr>
<td>S2156BU</td>
<td>BUTANE detector</td>
</tr>
<tr>
<td>S2156VB</td>
<td>PETROL VAPOURS detector</td>
</tr>
</tbody>
</table>

SMART3G-D3 IR - Flammable Gas (with Infrared sensor)

The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2601ME</td>
<td>METHANE detector</td>
</tr>
<tr>
<td>S2601PR</td>
<td>PROPANE detector</td>
</tr>
<tr>
<td>S2601BU</td>
<td>BUTANE detector</td>
</tr>
</tbody>
</table>

Range value interface: 4-20 mA, 0-100%LEL.
Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).

SMART3G-D3 - Toxic Gas (with Electrochemical cell)

The below items are available on request only. Please check the last price list for lead time information.

S2642O2  OXYGEN (O2) detector
Range value interface: 0-25% Vol., 4-20 mA.

S2162CO  CARBON MONOXIDE (CO) detector
Range value interface: 0-500 ppm, 4-20 mA.

SMART3G-C3 - Gas detectors for zone 2, category 3 areas

Designed to meet with light industrial requirements, the SMART3 GC-2 gas detectors allow monitoring toxic and flammable contents in areas classified as zone 3. The SMART3 GC-3 can reliably monitor flammable compounds (%LEL), toxic compounds in ppm, Oxygen and CO2 contents in % by vol.

SMART3 GC-3 features:
• Standard 4-20 mA 3 wires output
• Optional 3 relays output
• Optional RS485 interface for Modbus communication to make the detectors communicate to MULTISCAN++ and SENTOX IDI+ control panels.
• Ongoing system self diagnostic
• ATEX II3G (GD with optional adapter) and SIL 1 certified (EN50402)
• Wide range of accessories for installation and maintenance
• Easy sensor replacement

The below items are available on request only. Please check the last price list for lead time information.

Range value interface: 4-20 mA, 0-100%LEL.

S2096ME  METHANE detector
S2096GP  LPG detector
S2096PR  PROPANE detector
S2096BU  BUTANE detector
S2096VB  PETROL VAPOURS detector
Gas Detection Systems

SMART3G-C3 IR - Flammable gases (with Infrared sensor)

<table>
<thead>
<tr>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test and calibrating equipment for gas detectors is included in part 6 of this catalogue. For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).</td>
<td></td>
</tr>
<tr>
<td>Range value interface: 4-20 mA, 0-100%LEL.</td>
<td></td>
</tr>
</tbody>
</table>

- **S2653ME** METHANE detector
- **S2653PR** PROPANE detector
- **S2653BU** BUTANE detector

SMART3G-C3 - Toxic gases (with Electrochemical cell)

<table>
<thead>
<tr>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>The below items are available on request only. Please check the last price list for lead time information.</td>
<td></td>
</tr>
</tbody>
</table>

- **S2640O2** OXYGEN (O2) detector
  - Range value interface: 0-25% Vol., 4-20 mA.

- **S2130CO** CARBON MONOXIDE (CO) detector
  - Range value interface: 0-500 ppm, 4-20 mA.

Gas detector accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ST.S/IDI</strong> Plug-in RS485 interface</td>
<td></td>
</tr>
<tr>
<td>Plug-in RS485 interface, to make SMART3 series gas detectors communicate with SENTOX IDI+ and MULTISCAN++ control panels.</td>
<td></td>
</tr>
</tbody>
</table>

- **ST.S/CKD** Handheld calibration keypad
  - Handheld calibration keypad to be connected to the detector to adjust the Zero, Span and 4-20mA values.

- **ST.S3REL** 3-Relay card with short flat cable
  - 3-Relay card for SMART3GC series gas detectors. Relay at 12÷24V. Includes short flatcable.
The below items are available on request only. Please check the last price list for lead time information.

**STGD/AD3**  
**Adapter for type 3 sensor heads**

Adapter for type 3 sensor heads to upgrade the protection from G to GD.

<table>
<thead>
<tr>
<th>Detector type</th>
<th>GD2</th>
<th>GD3</th>
<th>GG1</th>
<th>GC2</th>
<th>GC3</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS/CSW</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>STS/IDI</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>STS/CKD</td>
<td>--</td>
<td>--</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ST.S3REL</td>
<td>--</td>
<td>--</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**ZM/TEST/2**  
**Water protection/test adapter for sensor head type 2**

Permanent water protection/test adapter suitable for sensor head type 2 (like S2096 and S2097).

**ZM/TEST/3**  
**Water protection/test adapter for sensor head type 3**

Permanent water protection/test adapter suitable for sensor head type 3.

**SL517**  
**Stainless steel collector for sensor head type 3**

Stainless steel collector and weather protection cone for Explosion proof gas detector (suitable for sensor head type 3).

**SL523**  
**Stainless steel collector for sensor head type 2**

Stainless steel collector and weather protection cone for Explosion proof gas detector suitable for sensor head type 2 (like S2096 and S2097).

**SL647**  
**Stainless steel weather protection roof, wall mount type**

---

Test and calibrating equipment for gas detectors is included in part 6 of this catalogue.  
For spare parts, please refer to § Spare Parts at the end of this chapter (05. Gas detection systems).
## Gas Detection Systems

### Spare parts

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Spare part for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEI 350A</td>
<td>AM2000 mother board</td>
<td>AM2000</td>
</tr>
<tr>
<td>CEI 350B</td>
<td>AM2000 power supply</td>
<td>AM2000</td>
</tr>
<tr>
<td>CEI 350C</td>
<td>AM2000 box with keyboard</td>
<td>AM2000</td>
</tr>
<tr>
<td>CEI 350D</td>
<td>AM2000 front panel with keyboard</td>
<td>AM2000</td>
</tr>
<tr>
<td>UGP100-45K</td>
<td>Main board for G100-4</td>
<td>G100</td>
</tr>
<tr>
<td>UGP100-85K</td>
<td>Main board for G100-8</td>
<td>G100</td>
</tr>
<tr>
<td>Z-2106B1130</td>
<td>Signalpoint 0-100% LEL flam. replacement lid</td>
<td>Signalpoint</td>
</tr>
<tr>
<td>Z-2106B1545</td>
<td>Signalpoint O2 electrochemical cell</td>
<td>Signalpoint</td>
</tr>
<tr>
<td>Z-2106B1548</td>
<td>Signalpoint CO electrochemical cell</td>
<td>Signalpoint</td>
</tr>
<tr>
<td>Z-2106B1549</td>
<td>Signalpoint H2S electrochemical cell</td>
<td>Signalpoint</td>
</tr>
<tr>
<td>Z-2106B1596</td>
<td>Signalpoint 0-50PPM NH3 electrochemical cell</td>
<td>Signalpoint</td>
</tr>
<tr>
<td>Z-2306B3010</td>
<td>Unipoint terminal block (2x)</td>
<td>Unipoint</td>
</tr>
<tr>
<td>Z-2306B3020</td>
<td>Unipoint DIN rail socket</td>
<td>Unipoint</td>
</tr>
<tr>
<td>Z-2306B3030</td>
<td>Unipoint power connector</td>
<td>Unipoint</td>
</tr>
<tr>
<td>Z-SSPPPMTS</td>
<td>Touchpoint TP1 or TP4 terminal screw and ‘U’ clamp (bag of 20)</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-SPSTAXO1SS</td>
<td>Sensepoint O2 electrochemical cell</td>
<td>Sensepoint</td>
</tr>
<tr>
<td>Z-SPSTAXA1SS</td>
<td>Sensepoint NH3 0-50PPM electrochemical cell</td>
<td>Sensepoint</td>
</tr>
<tr>
<td>Z-SPSTAXA2SS</td>
<td>Sensepoint NH3 0-1000PPM electrochemical cell</td>
<td>Sensepoint</td>
</tr>
<tr>
<td>Z-SPSTAXC2SS</td>
<td>Sensepoint CO electrochemical cell</td>
<td>Sensepoint</td>
</tr>
<tr>
<td>Z-SPSTAXF1SS</td>
<td>Sensepoint 0-100% LEL flam. replacement lid</td>
<td>Sensepoint</td>
</tr>
<tr>
<td>Z-TP1IDC</td>
<td>Touchpoint TP1 IDC lead (display to input module)</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP1ADM</td>
<td>Touchpoint TP1 replacement mA display module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP1AIM</td>
<td>Touchpoint TP1 replacement mA input module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP1VDM</td>
<td>Touchpoint TP1 replacement mV display module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP1VIM</td>
<td>Touchpoint TP1 replacement mV input module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP1WMB</td>
<td>TP1 wall mounting bracket</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4CMDM</td>
<td>Touchpoint TP4 replacement display module for common module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4CMIM</td>
<td>Touchpoint TP4 replacement input module for common module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4IDC</td>
<td>Touchpoint TP4 IDC lead (display to input module)</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4INT</td>
<td>Touchpoint TP4 interconnect cable (input module to input module)</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4ADM</td>
<td>Touchpoint TP4 replacement mA display module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4AIM</td>
<td>Touchpoint TP4 replacement mA input module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4VDM</td>
<td>Touchpoint TP4 replacement mV display module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4VIM</td>
<td>Touchpoint TP4 replacement mV input module</td>
<td>Touchpoint</td>
</tr>
<tr>
<td>Z-TP4WMB</td>
<td>Touchpoint TP4 wall mounting bracket</td>
<td>Touchpoint</td>
</tr>
</tbody>
</table>
Accessories

Power Supplies

**Power Supplies**

**HLSPS25**

Power supply unit 24VDC - 3A (2 x 1.1A)

Earth monitoring and fault relay input to disable the battery charger when the fire panel is in alarm (providing 300mA extra current).

**Specifications**

- **Weight:** 5.5kg
- **Dimensions (W x H x D):** 377 mm x 408 mm x 92 mm
- **For battery type:** 2 x 7.2Ah/12V

CPR certified (1134-CPR-085)

**HLSPS50**

Power supply unit 24 VDC - 5A (2 x 2.2A)

Earth monitoring and fault relay input to disable the battery charger when the fire panel is in alarm (providing 600mA extra current).

**Specifications**

- **Weight:** 5.7kg
- **Dimensions (W x H x D):** 377 mm x 408 mm x 92 mm
- **For battery type:** 2 x 17Ah/12V

CPR certified (1134-CPR-085)

**BB-24**

Battery back-box (for 2 24Ah batteries)

**BF362-1**

PSU24V-1.5A with charger

Power supply with battery charger for batteries up to 17Ah. Housing inclusive power supply with space for 2 x 12V / 17Ah batteries.

**Specifications**

- **Input voltage:** 230 V AC - 50/60 Hz
- **Output voltage:** 24 VDC - 1.5 A
- **Operating temperature:** 5°C to +40°C
- **Dimensions (W x H x D):** 404 mm x 404 mm x 110 mm
- **Weight:** approx. 5 kg
- **For battery type:** 2 x 17Ah/12V

CPD number: 0786-CPD-20891; VDS number: G 209196

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Accessories

**BF362-5**

**PSU24V-5A with charger**

Power supply with battery charger for batteries up to 17Ah. Housing inclusive power supply with space for 2 x 12V / 17Ah batteries.

**Specifications**

- Output voltage: 24 VDC – 5A
- Operating temperature: 5°C to +40°C
- Dimensions (W x H x D): 404 mm x 404 mm x 110 mm
- Weight: approx. 5 kg
- For battery type: 2 x 17A/12V

**CPD number: 0786-CPD-20892; VDS number: G 209197**

**AES Series**

The AES series is designed to supply electrical power for fire detection systems approved to EN54-4/A8. The AES series is protected against lightning strikes and short circuits. A dynamic regulation stabilizes the output voltage and keeps it within the preset tolerance range. Elaborate filters eliminate all interferences and reduce the residual ripple from the 230 VAC mains. The status of the power device is locally displayed by leds and remotely by means of dry contacts. To preserve the capacity of batteries, their discharge is limited in conjunction with automatic disconnection of the user circuit. These units are both CPD and VDS approved.

**NF Approved EN54-4/A8**

The indicated power includes the battery charger consumption. Therefore, the total available power is 5% less (Exc. AES 28V 8A C85 SB).

**C24 Box**

**AES 24V 3A C24 SB G**

**Power supply unit 24V - 3A**

**Specifications**

- Dimensions (W x H x D): 322 mm x 248 mm x 126 mm
- Can hold up to 2 batteries: 12Ah / 12V

**CPR number: 0333-CPR-075230; VDS number: G209209**
## C38 Box

<table>
<thead>
<tr>
<th>AES 24V 3A C38 SB G</th>
<th>Power supply unit 24V - 3A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>289 mm x 350 mm x 189 mm</td>
</tr>
<tr>
<td>• Can hold up to 2 batteries:</td>
<td>24Ah / 12V</td>
</tr>
<tr>
<td>CPR number: 0333-CPR-075373; VDS number: G209209</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AES 24V 4A C38 SB G</th>
<th>Power supply unit 24V - 4A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPR number: 0333-CPR-075189; VDS number: G209026</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AES 24V 6A C38 SB G</th>
<th>Power supply unit 24V - 6A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPR number: 0333-CPR-075180; VDS number: G209036</td>
<td></td>
</tr>
</tbody>
</table>

## C85 Box

<table>
<thead>
<tr>
<th>AES 24V 8A C85 SB G</th>
<th>Power supply unit 24V - 8A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>408 mm x 408 mm x 224 mm</td>
</tr>
<tr>
<td>• Can hold up to 2 batteries:</td>
<td>38Ah / 12V</td>
</tr>
<tr>
<td>CPR number: 0333-CPR-075220; VDS number: G210080</td>
<td></td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
## Batteries

### VABO batteries

**RB012AHB**

1.2 Ah / 12V sealed lead acid battery

**Specifications**

- Dimensions (W x H x D): 97 mm x 48 mm x 54 mm
- Weight: 570g

VDS number: G111062

**RB022AHB**

2.2 Ah / 12V sealed lead acid battery

**Specifications**

- Dimensions (W x H x D): 178 mm x 34 mm x 60 mm
- Weight: 1.05kg

VDS number: G111063

**RB040AHB**

4.5 Ah / 12V sealed lead acid battery

**Specifications**

- Dimensions (W x H x D): 90 mm x 70 mm x 102 mm
- Weight: 1.7kg

**RB070AHB**

7.2 Ah / 12V sealed lead acid battery

**Specifications**

- Dimensions (W x H x D): 151 mm x 65 mm x 94 mm
- Weight: 2.650kg

VDS number: G114067

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
<table>
<thead>
<tr>
<th>Batteries</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB120AHB</td>
<td>12 Ah / 12V sealed lead acid battery</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>151 mm x 98 mm x 98 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>3.8kg</td>
</tr>
<tr>
<td>VDS number:</td>
<td>G114068</td>
</tr>
<tr>
<td>RB180AHB</td>
<td>18 Ah / 12V sealed lead acid battery</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>181 mm x 76 mm x 167 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>6.3kg</td>
</tr>
<tr>
<td>VDS number:</td>
<td>G114069</td>
</tr>
<tr>
<td>RB260AHB</td>
<td>26 Ah / 12V sealed lead acid battery</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>166 mm x 175 mm x 125 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>9.3kg</td>
</tr>
<tr>
<td>VDS number:</td>
<td>G111066</td>
</tr>
<tr>
<td>RB450AHB</td>
<td>45 Ah / 12V sealed lead acid battery</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>198 mm x 166 mm x 171 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>14.5kg</td>
</tr>
<tr>
<td>VDS number:</td>
<td>G111067</td>
</tr>
<tr>
<td>RB650AHB</td>
<td>65 Ah / 12V sealed lead acid battery</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
<td></td>
</tr>
<tr>
<td>• Dimensions (W x H x D):</td>
<td>350 mm x 166 mm x 174 mm</td>
</tr>
<tr>
<td>• Weight:</td>
<td>22.5kg</td>
</tr>
<tr>
<td>VDS number:</td>
<td>G111104</td>
</tr>
</tbody>
</table>
YUASA batteries

NP2.3-12  2,3Ah / 12V valve regulated lead acid battery

Specifications
- Dimensions (L x W x H): 178 mm x 34 mm x 64 mm
- Weight: 0.95 kg
- Nominal voltage: 12 V
- 20-hr rate Capacity to 1.75VPC at 20°C: 2.3 Ah
- 10-hr rate Capacity to 1.75VPC at 20°C: 2.1 Ah

VDS number: G101139

NP7-12  7Ah / 12V valve regulated lead acid battery

Specifications
- Dimensions (L x W x H): 151 mm x 65 mm x 97.5 mm
- Weight: 2.65 kg
- Nominal voltage: 12 V
- 20-hr rate Capacity to 1.75VPC at 20°C: 7 Ah
- 10-hr rate Capacity to 1.75VPC at 20°C: 6.4 Ah

VDS number: G189099

NP12-6  12Ah / 6V valve regulated lead acid battery

Specifications
- Dimensions (L x W x H): 151 mm x 50 mm x 97.5 mm
- Weight: 2.05 kg
- Nominal voltage: 6 V
- 20-hr rate Capacity to 1.75VPC at 20°C: 12 Ah
- 10-hr rate Capacity to 1.75VPC at 20°C: 11.1 Ah

VDS number: G194006

NP12-12  12Ah / 12V valve regulated lead acid battery

Specifications
- Dimensions (L x W x H): 151 mm x 98 mm x 97.5 mm
- Weight: 4.05 kg
- Nominal voltage: 12 V
- 20-hr rate Capacity to 1.75VPC at 20°C: 12 Ah
- 10-hr rate Capacity to 1.75VPC at 20°C: 11.1 Ah

VDS number: G189170

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
### NP17-12
**17Ah / 12V valve regulated lead acid battery**

**Specifications**
- **Dimensions (L x W x H):** 181 mm x 76 mm x 167 mm
- **Weight:** 6.1kg
- **Nominal voltage:** 12V
- **20-hr rate Capacity to 1.75VPC at 20°C:** 17 Ah
- **10-hr rate Capacity to 1.75VPC at 20°C:** 15.7 Ah

VDS number: G197022

### NP24-12
**24Ah / 12V valve regulated lead acid battery**

**Specifications**
- **Dimensions (L x W x H):** 166 mm x 175 mm x 125 mm
- **Weight:** 9kg
- **Nominal voltage:** 12V
- **20-hr rate Capacity to 1.75VPC at 20°C:** 24 Ah
- **10-hr rate Capacity to 1.75VPC at 20°C:** 22.3 Ah

VDS number: G182026

### NP38-12
**38Ah / 12V valve regulated lead acid battery**

**Specifications**
- **Dimensions (L x W x H):** 197 mm x 165 mm x 170 mm
- **Weight:** 14.2kg
- **Nominal voltage:** 12V
- **20-hr rate Capacity to 1.75VPC at 20°C:** 38 Ah
- **10-hr rate Capacity to 1.75VPC at 20°C:** 35.3 Ah

VDS number: G182024

### NP65-12
**65Ah / 12V valve regulated lead acid battery**

**Specifications**
- **Dimensions (L x W x H):** 350 mm x 166 mm x 174 mm
- **Weight:** 23kg
- **Nominal voltage:** 12V
- **20-hr rate Capacity to 1.75VPC at 20°C:** 65 Ah
- **10-hr rate Capacity to 1.75VPC at 20°C:** 60.5 Ah

VDS number: G183008

---

Item available on request only. Please check the last price list for lead time information.
Electro Magnetic Door Holders

1330NEML-D  Electro magnetic lock - retaining strength 50kg

Equipped with cushioned counter plates. With protection diode against current spikes. Nickel plated steel body; base in ABS; connection by wires.

Specifications

- Weight: 480g
- IP rating: IP40
- Power consumption: 24 VDC/60mA

1340NEML-D  Electro magnetic lock - retaining strength 100kg

Equipped with cushioned counter plates. With protection diode against current spikes. Nickel plated steel body; base in ABS; Wire terminals.

Specifications

- Weight: 770g
- IP rating: IP40
- Power consumption: 24 VDC/100mA

1335NEML  Electro magnetic lock - retaining strength 50kg

Equipped with cushioned counter plates. With release button, Nickel plated steel body & base in ABS. Connection to terminals - Unlock button.

Specifications

- Weight: 550g
- IP rating: IP40
- Power consumption: 24 VDC/65mA

1345NEML  Electro magnetic lock- retaining strength 100kg

Equipped with cushioned counter plates. With release button and protection diode against current spikes. Nickel plated steel body; base in ABS. Connection to terminals - Unlock button.

Specifications

- Weight: 760g
- IP rating: IP40
- Power consumption: 24 VDC/100mA

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Accessories

1350NEML  
Electro magnetic lock - retaining strength 25-50kg


Specifications
- Weight: 800g
- IP rating: IP40
- Power consumption: 24 VDC/60mA
- Dimensions (W x H x D): 95 mm x 95 mm x 40 mm

1360NEML  
Electro magnetic lock - retaining strength 50-100kg


Specifications
- Weight: 800g
- IP rating: IP40
- Power consumption: 24 VDC/60mA
- Dimensions (H x W x D): 95 mm x 95 mm x 40 mm

1369NEML  
Electro magnetic lock - floor fitting - retaining strength 50kg

Equipped with cushioned counter plates. Supplied with release push-button.

Specifications
- Weight: 800g
- IP rating: IP40
- Power consumption: 24 VDC/60mA

1315NEML  
Electro magnetic lock - retaining strength 50kg


Specifications
- Weight: 800g
- IP rating: IP40
- Power consumption: 24 VDC/40mA

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
## Accessories

### Electro Magnetic Door Holders

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
</table>
| 1370/15D | Magnetic door release unit - retaining strength 50kg | Weight: 1.2kg  
  IP rating: IP40 |
|           | The fixing bracket allows installation on floor, ceiling and wall. Nickel plated steel coil; steel bracket; alldium support. Equipped with cushioned counter-plates. Wire terminals; release button; 15 cm bracket. With protection diode against current spikes. |
| 1370/30D | Magnetic door release unit                       |                |
|           | Same as item 1370/15 D but with a 30cm bracket.  |                |
| 1380/15D | Magnetic door release unit                       |                |
|           | Same as item 1370/15 D but with a retaining strength of 100kg and 100mA power consumption. |
| 1380/30D | Magnetic door release unit                       |                |
|           | Same as item 1380/15 D but with a 30cm bracket.  |                |

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
## Fire Resistant Cables

### Halogen free sheathed & shielded cable

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x1,5-LH-500</td>
<td>Twisted-shielded cable 2 wires 1.5mm²</td>
</tr>
<tr>
<td>2x2,5-LH-500</td>
<td>Twisted-shielded cable 2 wires 2.5mm²</td>
</tr>
</tbody>
</table>

Polyester/aluminium shield and 0.5mm² tinned copper drain. Recommended for Notifier intelligent loop installation. Flame non spreader, halogen free, low level of smoke emission and aggressively.

Reels of 500 meters.

### Halogen free sheathed & shielded fire resistant cable

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x1,5-LHR-500</td>
<td>Twisted-shielded cable 2 wires 1.5mm² fire resistant</td>
</tr>
<tr>
<td>2x2,5-LHR-500</td>
<td>Twisted-shielded cable 2 wires 2.5mm² fire resistant</td>
</tr>
</tbody>
</table>

Item available on request only. Please check the last price list for lead time information.

Reels of 500 meters.

### Special communication cable

The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSR485-100</td>
<td>Twisted-shielded cable 2 wires 1mm² - 100m</td>
</tr>
<tr>
<td>CSR485-500</td>
<td>Twisted-shielded cable 2 wires 1mm² - 500m</td>
</tr>
</tbody>
</table>

Reel of 100 meters.
Accessories

Fire Brigade Repeater Panels

These panels are only compatible with the NF30/50 & NF3000 Panels.

Luxembourg

The below items are available on request only. Please check the last price list for lead time information.

FBS2100 DIN fire brigade repeater panel

Specifications

- Consumption: 5-20mA @ 24 VDC
- Dimensions (W x H x D): 255 mm x 185 mm x 58 mm
- Key slot: No

VdS number: G299034

TSZ 0400 Door control unit with switched mode PSU

Specifications

- Weight: 700g
- Dimensions (W x H x D): 190 mm x 183 mm x 65 mm
- Power consumption: 24 VDC

AD2W FSK adapter

Specifications

- Consumption: 8mA @ 24 VDC
- Dimensions (W x H x D): 148 mm x 178 mm x 40 mm

VdS number: G194010

FSD 2003 Firemen’s key safe steel box without lock

Specifications

- Consumption: 110mA @ 24 VDC
- Dimensions (W x H x D): 190 mm x 170 mm x 160 mm

VdS number: G103133

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Accessories

Switzerland

Item available on request only. Please check the last price list for lead time information.

**FBF-CH**  Fire brigade repeater panel - complies with VKF specification

Without key slot.

**FBF-CH/CAB**  Surface mounting box for FBF-CH

**Specifications**
- Dimensions (W x H x D): 255 mm x 165 mm x 55 mm

**FBF-MULTI/INT**  Interface multi FBF

Up to 4 FBF-CH can be connected.

**Surge Protection Modules**

All modules are modular and easy to fit on standard DIN rails. These kind of modules can avoid big damage to the fire panel and auxiliary equipment in case of a lightning strike.

**ZB24544**  Surge protection module for 24V loop (use 1 loop, 2 channels)

**ZB24518**  Surge protection module for RS485 interface

**ZB24578**  Surge protection module for sounder output

Item available on request only. Please check the last price list for lead time information.
### Manual Call Point Accessories

The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA05/D/2</td>
<td>Surge protection module 220V - up to 5A</td>
</tr>
<tr>
<td>MA10/D/2</td>
<td>Surge protection module 220V - up to 10A</td>
</tr>
<tr>
<td>MA15/D/2/SI</td>
<td>Surge protection module 220V - up to 15A</td>
</tr>
</tbody>
</table>

**Manual Call Point Accessories**

The below items are available on request only. Please check the last price list for lead time information.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC083</td>
<td>Breakable cover seal for MCP (50 pcs)</td>
</tr>
<tr>
<td>CG2</td>
<td>Nylon cable gland for IP55 AND IP67 call point</td>
</tr>
</tbody>
</table>

Sold per pack of 50 pieces.
Steel protective covers for detectors

Steel web stoppers are for areas were abuse to smoke detectors, emergency lighting and so on, is severe. Constructed from plastic coated galvanised steel rod the cages can cope with the severest of abuse from vandalism or accidental damage. Installation and service is very easy with models for flush and surface mounting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI 9601</td>
<td>Low profile, flush mounting 70 (h) x 210 (Ø) mm</td>
<td></td>
</tr>
<tr>
<td>STI 9602</td>
<td>Low profile, surface mounting 108 (h) x 215 (Ø) mm</td>
<td></td>
</tr>
<tr>
<td>STI 9604</td>
<td>Low profile, flush mounting 75 (h) x 175 (Ø) mm</td>
<td></td>
</tr>
<tr>
<td>STI 9605</td>
<td>Low profile, surface mounting 115 (h) x 180 (Ø) mm</td>
<td></td>
</tr>
<tr>
<td>STI 9606</td>
<td>Low profile, flush mounting 95 (h) x 175 (Ø) mm</td>
<td></td>
</tr>
<tr>
<td>STI 9609</td>
<td>High profile, flush mounting 124 (h) x 215 (Ø) mm</td>
<td></td>
</tr>
<tr>
<td>STI 9610</td>
<td>High profile, surface mounting 145 (h) x 214 (Ø) mm</td>
<td></td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
## Protective covers for beam detectors

### STI 9624
Detector guard 225 (h) x 140 (w) x 120 (d) mm

This guard is, for instance compatible with FireRay 50/100 beam detectors.

### STI 9625
Beam detector guard 260 (h) x 195 (w) x 325 (d) mm

### STI 9706
Beam detector guard 275 (h) x 237 (w) x 120 (d) mm

This guard is, for instance compatible with 6500, LPB-700 and NFXI-BEAM beam detectors.

### STI 9707
Surface mount beam detector guard 280 (h) x 244 (w) x 140 (d) mm

This guard is, for instance compatible with 6500, LPB-700 and NFXI-BEAM beam detectors in surface mount.

### STI 9841
Beam detector guard 293 (h) x 256 (w) x 91 (d) mm

This guard is, for instance compatible with the FIRERAY 5000 System Controller.

*The below items are available on request only. Please check the last price list for lead time information.*
Accessories

**Protective Accessories**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI 9840</td>
<td>Beam detector guard 168 (h) x 168 (w) x 146 (d) mm</td>
</tr>
</tbody>
</table>

This guard is, for instance compatible with the FIRERAY 5000 motorised detector.

**OSID-WG**

**Wire guard for OSID Imager and Emitter**

Protective guard for OSID imager and emitter. The guard is plastic coated for durability and use in harsh environments. It protects the emitter and imager against vandalism or accidental damage.

**Specifications**

- Dimensions: 104 mm x 167 mm x 234 mm

**Steel Protective Covers for MCP**

Protective cover to help stop malicious or accidental false fire alarms. This unique device has been helping stop false fire alarms around the world for decades, without restricting legitimate operation of devices such as fire alarm break glass call points. It is ideal for schools, colleges, hospitals, nursing homes, hotels and all public buildings where there is a threat of false fire alarms.

The Stopper consists of a clear, tamper-proof, tough polycarbonate cover and frame that fits over the break glass call point. When lifted to gain access to the break glass, its optional battery powered integral sounder emits a piercing 120 dB. Immediate attention is drawn to the area and a prankster will either run or be caught.

- Constructed from tough clear polycarbonate.
- Protects equipment from accidental operation, vandalism, product misuse, dust and weather.
- Available with or without integral sounder.
- Integral sounder powered by a 9V PP3 battery (included).
- Available for flush or surface mounted products.
- Lock or break seal options for added security.
- Weather proofing available with a choice of gaskets.
- Optional depth spacers to accommodate a wider variety of products.

Please replace “n” in the part n° by the code for the needed language:

- N = Dutch
- F = French
- E = English
- D = German
- I = Italian

The below items are available on request only. Please check the last price list for Lead time information.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI 6530/n</td>
<td>Stopper flush mounted without sounder</td>
</tr>
<tr>
<td>STI 6531/n</td>
<td>Stopper surface mounted without sounder</td>
</tr>
<tr>
<td>STI 6532/n</td>
<td>Stopper flush mounted with sounder</td>
</tr>
<tr>
<td>STI 6533/n</td>
<td>Stopper surface mounted with sounder</td>
</tr>
<tr>
<td>STI 6534/n</td>
<td>Weather stopper flush mounted without sounder</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
**Accessories**

**STI 6535/n**  
**Weather stopper surface mounted without sounder**

Cover to protect against the ingress of dust or water. The Weather Stopper is a protective cover that is ideal for extending the life and reliability of weather exposed devices, such as manual call points. It offers protection against harsh environments and conditions both outside and inside, as well as preventing tampering, vandalism and damage from accidental operation.

Easy to install, the Weather Stopper consists of a clear, tamper-proof, tough polycarbonate cover, frame and weather gasket that fits over the manual call point. The weather gasket seals the unit, preventing dust, grime and water from getting to the device. In the event of an emergency, simply lift the cover to gain access to the protected device.

- Strong, durable cover to take even the severest of knocks.
- Protects equipment against damage, dust and grime as well as water ingress.
- A variety of cable entry gaskets are available.
- Ideal in saline atmospheres.
- Optional depth spacers to accommodate a wider variety of products.
- Available for flush or surface mounted products.
- Available in red, yellow, green and blue.
- Lock or break seal options for added security.

For Green, Blue or Yellow add /G, /B, /Y

**Options : extra cost**

/BS  
**Security break seal (to be ordered along with the stopper)**

**CKS002**  
**Break seal conversion kit**

This kit contains: 1 retainer, 2 break seals, instructions.

**STI/BS**  
**Breakable seals**

Pack of 10 pieces.

/L  
**Frangible lock**
Steel protective covers for Audio & Visual Devices

**STI 9617**  
Protective cover 150 (Ø) x 125 (h) mm

This guard is, for instance compatible with the intelligent audio & visual devices.

**STI 9621**  
Protective cover 171 (h) x 146 (w) x 108 (h) mm

This guard is, for instance compatible with the old (NX/NS) audio & visual devices.

Steel protective covers for signalling panels

**STI 9640**  
Exit light guard 270 (h) x 340 (w) x 65 (d) mm

**STI 9641**  
Exit light guard 273 (h) x 372 (w) x 100 (d) mm

**STI 9645**  
Exit light guard 350 (h) x 550 (w) x 150 (h) mm

**STI 9649**  
Exit light guard 245 (h) x 570 (w) x 245 (h) mm

The below items are available on request only. Please check the last price list for lead time information.
Accessories

Detector Test Equipment

25E smoke detector tester

<table>
<thead>
<tr>
<th>HSI-25E</th>
<th>Smoke detector tester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compatible with HSI-1490-1 delivery tube.</td>
</tr>
<tr>
<td></td>
<td>150ml - Flammable canister.</td>
</tr>
<tr>
<td></td>
<td>AITA Rules for Air Freight: UN 1950 Class 2.1 No subsidiary risk.</td>
</tr>
<tr>
<td></td>
<td>Box of 12 cans.</td>
</tr>
<tr>
<td></td>
<td>Please note that next to the standard freight charge a special ADR cost will be charged following the transportation safety regulations for flammable or dangerous products.</td>
</tr>
</tbody>
</table>

25E smoke detector tester accessories

<table>
<thead>
<tr>
<th>HSI-1490-1</th>
<th>18” Fiberglass Delivery Tube for 25E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compatible with HSI-25E</td>
</tr>
<tr>
<td></td>
<td>Length of 45cm</td>
</tr>
</tbody>
</table>

SDT series smoke detector testers

<table>
<thead>
<tr>
<th>SDT150-12</th>
<th>Smoke detector testers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Handheld unit for functional testing of smoke detectors.</td>
</tr>
<tr>
<td></td>
<td>150 ml - Non flammable canister.</td>
</tr>
<tr>
<td></td>
<td>Box of 12 cans.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SDT250-12</th>
<th>Smoke detector testers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For use with Solo 330 smoke dispenser.</td>
</tr>
<tr>
<td></td>
<td>Not suitable for handheld use.</td>
</tr>
<tr>
<td></td>
<td>250ml - Non flammable canister.</td>
</tr>
<tr>
<td></td>
<td>Box of 12 cans.</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Detector Test Equipment

SOLO A7  Detector duster
For cleaning smoke detectors.
250ml - non flammable canister.
Box of 12 cans.

SDT150-S-12  Smoke Sabre
Smoke detector tester for handheld use.
Telescopic smoke dispenser included per can.
150 ml - UL listed - Flammable canister.
Box of 12 cans.
Please note that next to the standard freight charge a special ADR cost will be charged following the transportation safety regulations for flammable or dangerous products.

SDT series smoke detector tester accessories

SOLO 810  Smoke detector test starter pack  2,5 m
Includes:
1 x Solo 101 fibreglass extension pole - 1,13m
1 x Solo 330 aerosol smoke dispenser

SOLO 808  Smoke detector test starter pack  4 m
Includes:
1 x Solo 108 fibreglass extension pole - 2,5m
1 x Solo 330 aerosol smoke dispenser

SOLO 809  Smoke detector test starter pack  6 m
Includes:
1 x Solo 100 fibreglass telescopic extension pole - 4,5m
1 x Solo 330 aerosol smoke dispenser

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Accessories

SOLO 811
Smoke detector test & removal set 6 m

Includes:
1 x Solo 100 fibreglass telescopic extension pole - 4,5m
1 x Solo 200 universal removal tool
1 x Solo 330 aerosol smoke dispenser
1 x Solo 610 protective carrying/storage bag

Item available on request only. Please check the last price list for lead time information.

SOLO 814
Smoke & mains heat detector test set 6 m

Includes:
1 x Solo 100 fibreglass telescopic extension pole - 4,5m
1 x Solo 200 universal removal tool
1 x Solo 330 aerosol smoke dispenser
1 x Solo 424 240V heat detector tester
1 x Solo 610 protective carrying/storage bag

Item available on request only. Please check the last price list for lead time information.

SOLO 822
Smoke & cordless heat detector test set 6 m

Includes:
1 x Solo 100 fibreglass telescopic extension pole - 4,5m
1 x Solo 200 universal removal tool
1 x Solo 330 aerosol smoke dispenser
1 x Solo 461 cordless heat detector test set
1 x Solo 610 protective carrying/storage bag

SOLO 610
Protective carrying storage bags

SOLO 101
Fiberglass extension pole - 1,13m

Reach of 2,5 m including height of man.

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
## Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLO 108</td>
<td>Fiberglass 2 section telescopic pole - 2,5m</td>
</tr>
<tr>
<td></td>
<td>Reach of 4 m including height of man.</td>
</tr>
<tr>
<td>SOLO 100</td>
<td>Fiberglass 4 section telescopic pole - 4,5m</td>
</tr>
<tr>
<td></td>
<td>Reach of 6 m including height of man.</td>
</tr>
<tr>
<td>SOLO 713-001</td>
<td>Adapter tool 713</td>
</tr>
<tr>
<td></td>
<td>Adapter for connection of ECO1000DRT. Compatible with Solo poles. Incl. magnet tester.</td>
</tr>
<tr>
<td>SOLO 200</td>
<td>Universal detector removal tool</td>
</tr>
<tr>
<td></td>
<td>Detector removal tool which is compatible with most types of fire detectors.</td>
</tr>
<tr>
<td>SOLO 330</td>
<td>Aerosol smoke dispenser</td>
</tr>
<tr>
<td></td>
<td>Economic and easy for testing smoke detectors. For use with SOLO 100 poles.</td>
</tr>
<tr>
<td>SOLO 424</td>
<td>Heat detector tester 220V-240V</td>
</tr>
<tr>
<td></td>
<td>Complete with 5m cable.</td>
</tr>
<tr>
<td>SOLO 461</td>
<td>Cordless heat detector tester set</td>
</tr>
<tr>
<td></td>
<td>Includes: 1 x Solo 460-001 cordless heat unit 2 x Solo 760-001 NIMH battery baton 1 x Solo 725-001 fast charger</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
### Testifire units

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Includes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TESTIFIRE 1001-001</td>
<td>Testifire 1001-001 smoke/heat kit</td>
<td>1 x Testifire 1000-001 head unit, 1 x TS3-001 smoke capsule, 2 x Solo 760 NIMH battery baton, 1 x Solo 725-001 fast charger</td>
</tr>
<tr>
<td>TESTIFIRE 6001-001</td>
<td>Testifire 6001-001 smoke/heat kit 6 m</td>
<td>1 x Testifire 1000-001 head unit, 1 x TS3-001 smoke capsule, 2 x Solo 760-001 NIMH battery baton, 1 x Solo 100-001 fibreglass telescopic access pole 4.5 m, 1 x Solo 200-001 universal detector removal tool, 1 x Solo 610-001 protective carrying / storage bag</td>
</tr>
<tr>
<td>TESTIFIRE 9001-001</td>
<td>Testifire 9001-001 smoke/heat kit 9 m</td>
<td>1 x Testifire 1000-001 head unit, 1 x TS3-001 smoke capsule, 2 x Solo 760-001 NIMH battery baton, 1 x Solo 725-001 fast charger, 1 x Solo 100-001 fibreglass telescopic access pole 4.5 m, 3 x Solo 101-001 fibreglass extension pole 1.13m, 1 x Solo 200-001 universal detector removal tool, 1 x Solo 610-001 protective carrying / storage bag</td>
</tr>
</tbody>
</table>

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Accessories

**TESTIFIRE 2001-001**  
Testifire 2001-001 smoke/heat/CO kit

- Includes:
  - 1 x Testifire 2000-001 head unit
  - 1 x TS3-001 smoke capsule
  - 1 x TC3-001 CO capsule
  - 2 x Solo 760-001 NIMH battery baton
  - 1 x Solo 725-001 fast charger

**TESTIFIRE 6201-001**  
Testifire 6201-001 smoke/heat/CO kit 6 m

- Includes:
  - 1 x Testifire 2000-001 head unit
  - 1 x TS3-001 smoke capsule
  - 1 x TC3-001 CO capsule
  - 2 x Solo 760-001 NIMH battery baton
  - 1 x Solo 725-001 fast charger
  - 1 x Solo 100-001 fibreglass telescopic access pole 4.5 m
  - 1 x Solo 200-001 universal detector removal tool
  - 1 x Solo 610-001 protective carrying / storage bag

**TESTIFIRE 9201-001**  
Testifire 9201-001 smoke/heat/CO kit 9 m

- Includes:
  - 1 x Testifire 2000-001 head unit
  - 1 x TS3-001 smoke capsule
  - 1 x TC3-001 CO capsule
  - 2 x Solo 760-001 NIMH battery baton
  - 1 x Solo 725-001 fast charger
  - 1 x Solo 100-001 fibreglass telescopic access pole 4.5 m
  - 3 x Solo 101-001 fibreglass extension pole 1.13 m
  - 1 x Solo 200-001 universal detector removal tool
  - 1 x Solo 610-001 protective carrying / storage bag

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Accessories

Testifire replacement capsules

<table>
<thead>
<tr>
<th>TS3-3PACK-001</th>
<th>Replacement smoke capsule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to 900 tests per capsule!</td>
</tr>
<tr>
<td></td>
<td>Pack of 3 capsules</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TS3-001</th>
<th>Replacement smoke capsule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to 900 tests per capsule!</td>
</tr>
<tr>
<td></td>
<td>Pack of 6 capsules</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TC3-3PACK-001</th>
<th>Replacement CO capsule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to 900 tests per capsule!</td>
</tr>
<tr>
<td></td>
<td>Pack of 3 capsules</td>
</tr>
</tbody>
</table>

Testifire accessories

<table>
<thead>
<tr>
<th>TESTIFIRE 25</th>
<th>IR controller for Testifire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The remote control for Testifire is required for situations where the IR test beam of Testifire that triggers or stops a test is not broken by a physical presence. Typical situations are the sampling ports of aspirating detection systems or detectors with ‘virtual chambers’. The Testifire 25 is then used to initiate the test procedure.</td>
</tr>
</tbody>
</table>
System Sensor test equipment Series

**S300 DRT**

Detector removal tool for Serie 800 detectors

Compatible with SOLO 100 pole series by SOLO 713-001 adapter.

Item available on request only. Please check the last price list for lead time information.

**S300RPTU**

Remote programming test unit

Programming of the following features (dist.: 2-3 cm):
- Read and write last maintenance date
- Read chamber contaminating level and the element value
- Set detector status LED to blink or non blink
- Adjust sensitivity level and detector address & to allow an alarm test
- Includes battery

Compatible with 800 Series detectors.

**Specifications**

- Weight: 220g
- Power: Works on 3 AAA batteries (included)

**S300SAT**

Satellite test unit

Wireless interface for S300RPTU to set 800 Series detectors up to 4.5m distance. Used with telescopic poles, with adapter piece SOLO 713-001.

**Specifications**

- Weight: 230g

Requires two 9V batteries (not included)
**Detector Test Equipment**

**ECO1000 DRT**
Detector removal tool for ECO1000 detectors

Compatible with SOLO 100 pole series by SOLO 713-001 adapter.

- Item available on request only. Please check the last price list for lead time information.

**ECO1000 RTU**
Remote laser test unit

The unit transmits a coded message, preventing spurious alarms being generated by other laser-based devices. With a range of several metres, the handheld test unit provides an effortless way of remotely alarm testing the range of ECO1000 detectors and removes the need for any direct physical access to the detector by the user.

**M02-04-00**
Test magnet

For all Series Detectors except ECO & 800 series.
Activates internal reed switch to give alarm.

- Item available on request only. Please check the last price list for lead time information.

**POL-100 Portable Loop Polling Tool**

Compatible with Notifier loop protocol.

The POL-100 is designed to help the technician for the intelligent loop commissioning. The POL-100 is equipped with a blue backlit display and removable terminals. It is powered via batteries.

The POL-100 displays:
- Resistance between loop wires & wires and earth
- Voltage on the loop
- Identification of devices (auto-learn)
- Eventually, the double or missed address
- PW value of each detector

It is also able to register informations of a device for later diagnostic.

**POL-100**
Polling tool

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Scorpion® Tester for Aspirating systems & Point detectors

Scorpion ® ASD is a unique, functional remote smoke detector test system for Aspirating Smoke Detection (ASD) Systems, and offers an approved, benign and effectively non-contaminating test particulate delivered in a controlled and repeatable manner.

### Specifications

- **ASD particle lifetime:** Suitable for 120sec / 100m pipe runs
- **Testing capacity:** Up to 240 tests of 15 seconds of smoke per Scorpion

### SCORP 8000-001

Scorpion control panel (Incl. mounting box)

### SCORP 2001-001

Scorpion ASD head unit kit

### SCORP 1001-001

Scorpion point detector head unit kit

Item available on request only. Please check the last price list for lead time information.

### SCORP 7000-001

Scorpion portable controller

Includes SCORP 60 battery cable for SOLO 760 and SPARE 1054 control cable to access point.

Item available on request only. Please check the last price list for lead time information.

### SCORP 25-001

Scorpion access point

For use with SCORP 7000 portable controller (one required per head unit).

Item available on request only. Please check the last price list for lead time information.
### Scorpion® Tester accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCORP 50-001</td>
<td>Scorpion battery pack, NiMH rechargeable nominal 7.2V/2.2Ah</td>
<td>Item available on request only. Please check the last price list for lead time information.</td>
</tr>
<tr>
<td>SCORP 60-001</td>
<td>Scorpion battery cable, for connecting SOLO 760 battery batton to Scorpion Control Panel</td>
<td>Item available on request only. Please check the last price list for lead time information.</td>
</tr>
<tr>
<td>SOLO 726-101</td>
<td>Solo battery batton, NiMH rechargeable nominal 7.2V/2.2Ah</td>
<td>Item available on request only. Please check the last price list for lead time information.</td>
</tr>
</tbody>
</table>
Test Equipment for Sagittarius wireless system

SGSK100
Test kit for Sagittarius wireless system

For SAGITTARIUS series wireless detectors. Compatible with SOLO 100 pole series using SOLO 713-001 adapter. Complies to EN 54-25.

The SGSK100 is composed of the following elements:
1. A carrying case.
2. A pair of carrying case’s keys.
3. A test device.
4. A test device’s adaptor base.
5. A battery for the test device: CR123A (3 V & 1.2 Ah).
6. A holding pole for the test device.
7. A radio interface module.
8. A power supply transformer unit for the radio interface.
10. An ER9V battery for the wireless keypad (9 V & 1.2 Ah).
11. A programming lead for wireless keypad and radio interface connection.
12. A CD containing the wireless system configuration program (Wirelex) for the PC.

SG-DRT
Detector head removal tools

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
Flame detector testers

Specially designed to use with the 20/20 series. Based on a emitting of electromagnetic radiation recognized by the specific flame detectors. Allows to test detectors under real conditions without the associated risks of an open flame. The simulators use NiCd batteries as a rechargeable power source. Possibility to add a collimator to extend the range of application.

Item available on request only. Please check the last price list for lead time information.

Did you know that Honeywell Fire Safety also offers to possibility to rent some of these fire simulators. Please consult the latest version of the price list for more information.

20/20-310 Fire simulator for triple IR flame detectors

Can be used to test 20/20I, 20/20XI, 20/20SI, 20/20MI, 20/20FI, 20/20CTIN and CTIP.

20/20-311 Fire simulator for UV/IR flame detectors

Can be used to test 20/20L-LB, 20/20ML, 20/20F, 20/20UB and 20/20MU.

20/20-312 Fire simulator for single IR flame detectors (20/20R and 20/20MR).

20/20-313 Fire simulator for hydrogen flame detectors

Can be used to test 20/20H, 20/20SH and 20/20MH.

20/20-190 Collimator for 20/20 simulators

NEW

FS-1100 Tester for flame detectors

The FS-1100 FLAME SIMULATOR is the essential complimentary tool to the self-testing capabilities of your Sharpeye™ IR3 Flame Detectors. It brings fire prevention safety to a higher level by giving you the ability to fully test the operational readiness of your entire fire detection system.

The robust and reliable FS-1100 Flame Simulator allows remote testing of flame detectors, which are often located in difficult to access and/or classified hazardous areas (Zone 1, Zone 21).

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
PTL611 Portable test lamp for RIV IR flame detector

The PTL-611 portable test lamp is a plastic explosion-proof shock-proof and anti-static torch lamp with high intensity light which is modulated at a frequency of 23Hz so as to be used for external testing of RIV-601/F IR flame detectors, as an alternative to the internal test feature built-in inside these detectors. The working distance is over 10 meters, normally adequate for most common applications. The portable test lamp is powered by 2 non rechargeable alkaline batteries size D (LR20) with an autonomy of more than 20 hours. The lamp is turned on by a slide switch on the side. The light beam aperture is about 3 degrees.

Specifications

- Krypton bulb lamp: 2.4V – 0.5A
- Light beam aperture: About 3 degrees
- Modulation: By 50% pulses (50% on, 50% off) with 23Hz frequency
- Operating distance from detector: Over 10 meters
- Type of batteries: 2 non rechargeable alkaline batteries size D (LR20), autonomy of more than 20 hours, included.
- IP rating: IP67
- Explosion-proof: Ex II 2GD T80°C EEx eib IIC T4 (ATEX zone 1 and zone 2 gas, zone 21 and zone 22 dust) -20°C +55°C
- Operating temperature: 200 mm x 85 mm x 60 mm
- Dimensions: 600 grams with batteries and case (net without batteries 240 grams).
- Weight:
### Gas Detector Test Equipment

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-CAL-COM</td>
<td>Gas detector calibration kit - combustible detectors</td>
<td>The test kit includes the following items:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-02000-A1645 calibration gas flow housing Signalpoint &amp; Sensepoint</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-REG-0.30 pre-set flow regulator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-SPPPTUB tygon tube</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-GasCH4-22-AIR-34 2.2% Vol methane in cylinder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-2302D0765 case for storing the above products</td>
</tr>
<tr>
<td>Z-CAL-CO</td>
<td>Gas detector calibration kit - CO gas detectors</td>
<td>The test kit includes the following items:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-02000-A1645 calibration gas flow housing Signalpoint &amp; Sensepoint</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-REG-0.30 pre-set flow regulator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-SPPPTUB tygon tube</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-GasCO-250-AIR-34 250 ppm carbon monoxide in cylinder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x Z-2302D0765 case for storing the above products</td>
</tr>
<tr>
<td>Z-02000-A1645</td>
<td>Calibration gas flow housing for Signalpoint &amp; Sensepoint</td>
<td>1 x Z-02000-A1645 calibration gas flow housing</td>
</tr>
<tr>
<td>Z-SPPPCAL</td>
<td>Calibration cup for Sensepoint Pro &amp; Plus</td>
<td>1 x Z-SPPPCAL calibration cup for Sensepoint Pro &amp; Plus</td>
</tr>
<tr>
<td>Z-REG-0.30</td>
<td>Pre-set 0.3l/m flow regulator</td>
<td>1 x Z-REG-0.30 pre-set flow regulator</td>
</tr>
<tr>
<td>Z-SPPPTUB</td>
<td>1m tygon tubing (suitable for all gases)</td>
<td>1 x Z-SPPPTUB tygon tube</td>
</tr>
<tr>
<td>Z-2302D0765</td>
<td>Case for up to 2x2 alu. gas cylinders, regulator, tubing</td>
<td>1 x Z-2302D0765 case for storing the above products</td>
</tr>
<tr>
<td>Z-GasCH4-22-AIR-34</td>
<td>2,2% Vol Methane in air (EU=50% LEL, US=44% LEL)</td>
<td>1 x Z-GasCH4-22-AIR-34 2.2% Vol Methane in air (EU=50% LEL, US=44% LEL)</td>
</tr>
<tr>
<td>Z-GasO2-209-N2-34</td>
<td>20,9% Vol Oxygen in N2 (compressed air)</td>
<td>1 x Z-GasO2-209-N2-34 20.9% Vol Oxygen in N2 (compressed air)</td>
</tr>
<tr>
<td>Z-GasCO-250-AIR-34</td>
<td>250 ppm Carbon monoxide in air</td>
<td>1 x Z-GasCO-250-AIR-34 250 ppm Carbon monoxide in air</td>
</tr>
<tr>
<td>Z-GasNH3-25-AIR-34</td>
<td>25 ppm Ammonia in air</td>
<td>1 x Z-GasNH3-25-AIR-34 25 ppm Ammonia in air</td>
</tr>
<tr>
<td>Z-GASNH3-300-AIR-34</td>
<td>300 ppm Ammonia in air</td>
<td>1 x Z-GASNH3-300-AIR-34 300 ppm Ammonia in air</td>
</tr>
<tr>
<td>Z-GASCO-100-AIR-34</td>
<td>100 ppm Carbon monoxide in air</td>
<td>1 x Z-GASCO-100-AIR-34 100 ppm Carbon monoxide in air</td>
</tr>
<tr>
<td>Z-GASH2S-10-AIR-34</td>
<td>10 ppm H2S in air</td>
<td>1 x Z-GASH2S-10-AIR-34 10 ppm H2S in air</td>
</tr>
</tbody>
</table>

The below items are available on request only. Please check the last price list for lead time information.

Single gas cylinder (34 L) - Approximately 30 Calibrations.

Please note that next to the standard freight charge a special ADR cost will be charged following the transportation safety regulations for flammable or dangerous products.

This means a fix amount per shipment will be invoiced whenever a flammable smoke detector tester class 2.1 UN1950 will be shipped.

Till 20 box, this amount will be 10 euro per shipment.

For more than 20 boxes, 35 euro will be invoiced.

For spare parts, please refer to § Spare Parts at the end of this chapter (06. Accessories).
## Calibration & Installation Tools

All SENSITRON gas detectors are factory calibrated prior to despatch. In order to fulfil the EN60079–17:2003, detectors have to undergo periodical operational testing, each three to six months according to the plant’s risk assessment. Test results are to be recorded into a suitable book to be shown to the Authority in case of inspection.

In environments where polluting elements might alter the original sensor performances, periodical testing should be carried out at shorter time intervals. All tests should be carried out by employing a specific gas mixture, according to the manufacturer's advice.

The calibration carrying case has place for 2 sample gas bottles and comprises one flow indicator, hose and adaptors. On request, this calibration gas kit can be equipped with portable gas detectors available for different gases and ranges.

The below items are available on request only. Please check the last price list for lead time information.

### VTX+XA  
**Calibration gas case**

Calibration gas case including one flow indicator, hose and adaptor. (Calibration gas cylinders not included).

### SI.B/XXX  
**Disposable gas cylinders; 50% LEL**

Disposable gas cylinders filled with either flammable or toxic non reactive gas mixtures.  
Dangerous goods: ADR/RID UN 2037, Class 2, Packing instructions 203.

At the order please specify the gas type.

### SG.B/XXX  
**Disposable gas cylinders, 50% LEL**

Disposable gas cylinders filled with reactive gas mixtures.  
Dangerous goods: ADR/RID UN 1956, Class 2.

At the order please specify the gas type.

### PC.VALVOLA  
**Flow-meter valve**

Flow-meter valve to be mounted on the gas cylinder to set the gas flow.

### ZMCAP/123  
**Adapter**

Adapter for all of Sensitron gas detectors.  
Made anodized alloy, it allows the right quantity of gas inlet to flow to the detector.  
It comes complete with adapters to fit on the detectors’ heads.
## Spare parts

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Spare part for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOD45R</td>
<td>Replacement cord for MOD400R</td>
<td>MOD400R</td>
</tr>
<tr>
<td>SOLO 460-001</td>
<td>Cordless heat detector head unit only</td>
<td>Test Equipment</td>
</tr>
<tr>
<td>SOLO 726-101</td>
<td>220/240V Mains &amp; car charger</td>
<td>Test Equipment</td>
</tr>
<tr>
<td>SOLO 760-001</td>
<td>Nimh battery baton</td>
<td>Test Equipment</td>
</tr>
<tr>
<td>SPARE 1002</td>
<td>Pair of transparent grips for Solo 200</td>
<td>Test Equipment</td>
</tr>
<tr>
<td>SPARE 1005</td>
<td>Silicone membrane for Solo300</td>
<td>Test Equipment</td>
</tr>
<tr>
<td>SPARE 1049</td>
<td>Membrane ring for testifire</td>
<td>Test Equipment</td>
</tr>
<tr>
<td>SPARE 1028</td>
<td>Aerosol retaining cup</td>
<td>Test Equipment</td>
</tr>
</tbody>
</table>
Residential Smoke and Gas Detection
Domestic Fire Detection

Notes
X-Series Fire Alarms (Availability will be announced)

Battery powered Fire Alarms

The Honeywell range of smoke and heat alarms has been engineered for ultimate performance and reliability. Featuring a ten year lifespan and warranty; low profile design; and easy installation, they are ideal for professionals dealing with residential fire detection.

All X-Series alarms can be interconnected wirelessly for increased safety by using the wireless plug-in module XW100. Honeywell's - X-Series alarms are available as a complete range of fire and Carbon Monoxide solutions.

Specifications

- Operating temperature: 0°C - +40°C
- Relative humidity: 25-93% (non condensing)
- IP rating: IPX2D
- Power supply: Long-life lithium battery, 3V, sealed-in
- Visual indicators (LED):
  - Power: green; Alarm: red (big surface); Fault: yellow
  - Audible indicator: >85dB @ 3m, Distinct “Fire” alarm sound
- Button:
  - Test with reduced sound level; Alarm hush; Fault hush (24h)
- Dimensions (Ø x H): 125 mm x 41 mm
- Weight: 185 g

Approvals:
- VdS Q-label

High reliability
- Sealed housing to protect from adverse environmental conditions
- Automatic self-test every month
- Dirt compensation
- Tamper-proof
- Designed for residential environments
- Low total cost of ownership, 10 year warranty
- Easy to operate and use by end-user
- Easy to install
- Interconnectivity with snap-in wireless module (optional)

XH100 Heat Alarm
XS100 Optical Smoke Alarm
XS100T Optical Thermal Smoke Alarm

Accessories

XW100 Wireless Module
Mains powered fire alarms

The Honeywell range of smoke and heat alarms has been engineered for ultimate performance and reliability. Featuring a ten year lifespan and warranty; low profile design; and easy installation, they are ideal for professionals dealing with residential fire detection.

All X-Series alarms can be interconnected wirelessly for increased safety by using the wireless plug-in module XW100.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Operating temperature: 0°C - +40°C</td>
</tr>
<tr>
<td>• Relative humidity: 25-93% (non condensing)</td>
</tr>
<tr>
<td>• IP rating: IPX2D</td>
</tr>
<tr>
<td>• Power supply: 240VAC</td>
</tr>
<tr>
<td>• Visual indicators (LED): Power: green; Alarm: red (big surface); Fault: yellow</td>
</tr>
<tr>
<td>• Audible indicator: &gt;85dB @ 3m, Distinct “Fire” alarm sound</td>
</tr>
<tr>
<td>• Button: Test with reduced sound level; Alarm hush; Fault hush (24h)</td>
</tr>
<tr>
<td>• Dimensions (Ø x H): 125 mm x 41 mm</td>
</tr>
<tr>
<td>• Weight: 185 g</td>
</tr>
</tbody>
</table>

Approvals:
VdS Q-label

XHM100  Heat Alarm

XSM100  Optical Alarm

XS100T  Optical Thermal Smoke Alarm

Accessories

XW100  Wireless Module
X-series Carbon Monoxide Alarms

Battery powered Carbon Monoxide Alarms

The Honeywell range of smoke and heat alarms has been engineered for ultimate performance and reliability. Featuring a ten year lifespan and warranty; low profile design; and easy installation, they are ideal for professionals dealing with residential fire detection.

All X-Series alarms can be interconnected wirelessly for increased safety by using the wireless plug-in module XW100. Honeywell’s X-Series alarms are available as a complete range of fire and Carbon Monoxide solutions.

Specifications

- Operating temperature: 0°C - +40°C
- Relative humidity: 25-93% (non condensing)
- IP rating: IPX2D
- Power supply: Long-life lithium battery, 3V, sealed-in
- Visual indicators (LED): Power: green; Alarm: red (big surface); Fault: yellow
- Audible indicator: >85dB @ 3m, Distinct “Fire” alarm sound
- Button: Test with reduced sound level; Alarm hush; Fault hush (24h)
- Dimensions (Ø x H): 125 mm x 41 mm
- Weight: 185 g

Approvals:
VdS Q-label

XC70  CO Alarm - 7 year life and warranty
XC100  CO Alarm with alarm message - 10 year life and warranty
XC100D  CO Alarm with alarm message and multifunction CO level display - 10 year life and warranty

Accessories

XW100  Wireless Module
Mains powered Carbon Monoxide Alarms

The Honeywell range of smoke and heat alarms has been engineered for ultimate performance and reliability. Featuring a ten year lifespan and warranty; low profile design; and easy installation, they are ideal for professionals dealing with residential fire detection.

All X-Series alarms can be interconnected wirelessly for increased safety by using the wireless plug-in module XW100. Honeywell’s - X-Series alarms are available as a complete range of fire and Carbon Monoxide solutions.

Specifications

- Operating temperature: 0°C - +40°C
- Relative humidity: 25-93% (non condensing)
- IP rating: IPX2D
- Power supply: 240VAC
- Visual indicators (LED): Power: green; Alarm: red (big surface); Fault: yellow
- Audible indicator: >85dB @ 3m, Distinct “Fire” alarm sound
- Button: Test with reduced sound level; Alarm hush; Fault hush (24h)
- Dimensions (Ø x H): 125 mm x 41 mm
- Weight: 185 g

Approvals:
VdS Q-label

XCM100
CO Alarm with alarm message

XCM100D
CO Alarm with alarm message and multifunctions CO level display

Wireless plug-in module XW100

XW100
Wireless plug-in module for X-series

All X-Series alarms can be interconnected wirelessly for increased safety by using the wireless plug-in module XW100.
<table>
<thead>
<tr>
<th>Code</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40/40L4B</td>
<td>105</td>
</tr>
<tr>
<td>S40/40LB</td>
<td>103</td>
</tr>
<tr>
<td>S40/40M</td>
<td>103</td>
</tr>
<tr>
<td>S40/40R</td>
<td>103</td>
</tr>
<tr>
<td>S40/40U</td>
<td>106</td>
</tr>
<tr>
<td>S40/40UB</td>
<td>106</td>
</tr>
<tr>
<td>S777161</td>
<td>105</td>
</tr>
<tr>
<td>S777163</td>
<td>49</td>
</tr>
<tr>
<td>S777166</td>
<td>49</td>
</tr>
<tr>
<td>SD-851E</td>
<td>49</td>
</tr>
<tr>
<td>SD-851TE</td>
<td>40</td>
</tr>
<tr>
<td>SDBR</td>
<td>95</td>
</tr>
<tr>
<td>SENSOR-BOX</td>
<td>95</td>
</tr>
<tr>
<td>STS/ID1</td>
<td>95</td>
</tr>
<tr>
<td>STS/OC</td>
<td>116</td>
</tr>
<tr>
<td>STG/IN8-N</td>
<td>106</td>
</tr>
<tr>
<td>STG/OUT16-N</td>
<td>106</td>
</tr>
<tr>
<td>STG/SER++</td>
<td>105</td>
</tr>
<tr>
<td>STGMTSS1-CONF</td>
<td>49</td>
</tr>
<tr>
<td>STMTS/S1</td>
<td>95</td>
</tr>
<tr>
<td>STMTS/S1-B</td>
<td>95</td>
</tr>
<tr>
<td>STS/CSW</td>
<td>95</td>
</tr>
<tr>
<td>STS/CKD</td>
<td>95</td>
</tr>
<tr>
<td>SONDAS DE LA SERIE TMP2</td>
<td>104</td>
</tr>
<tr>
<td>SR1T</td>
<td>103</td>
</tr>
<tr>
<td>STG/8REL</td>
<td>103</td>
</tr>
<tr>
<td>STG/SER++</td>
<td>49</td>
</tr>
<tr>
<td>STMTS/S1</td>
<td>49</td>
</tr>
<tr>
<td>STMTS/S1-B</td>
<td>49</td>
</tr>
<tr>
<td>STS/CKD</td>
<td>49</td>
</tr>
<tr>
<td>STS/CSW</td>
<td>49</td>
</tr>
<tr>
<td>STS/ID1</td>
<td>49</td>
</tr>
<tr>
<td>STS/OC</td>
<td>49</td>
</tr>
</tbody>
</table>
Index

Notes
<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR-24006-01</td>
<td>185</td>
</tr>
<tr>
<td>FS-1100</td>
<td>250</td>
</tr>
<tr>
<td>FSD 2000</td>
<td>230</td>
</tr>
<tr>
<td>FSL-751E</td>
<td>42</td>
</tr>
<tr>
<td>FSL-751E-W</td>
<td>42</td>
</tr>
</tbody>
</table>

**G**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-100 2SE</td>
<td>202</td>
</tr>
<tr>
<td>G-100 4</td>
<td>202</td>
</tr>
<tr>
<td>G-100 8</td>
<td>202</td>
</tr>
<tr>
<td>GDA-CH12</td>
<td>172</td>
</tr>
<tr>
<td>GDA-CH12-NA</td>
<td>172</td>
</tr>
<tr>
<td>GDA-M/B-KF4A</td>
<td>172</td>
</tr>
</tbody>
</table>

**H**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD6295</td>
<td>173</td>
</tr>
<tr>
<td>HD6296</td>
<td>173</td>
</tr>
<tr>
<td>HD6297</td>
<td>173</td>
</tr>
<tr>
<td>HD6298</td>
<td>173</td>
</tr>
<tr>
<td>HLS-OPTO-RS232</td>
<td>33, 68</td>
</tr>
<tr>
<td>HLS-P525</td>
<td>219</td>
</tr>
<tr>
<td>HLS-P550</td>
<td>219</td>
</tr>
<tr>
<td>HSI-25E</td>
<td>238</td>
</tr>
<tr>
<td>HSI-1490-1</td>
<td>238</td>
</tr>
</tbody>
</table>

**I**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBOX-NBF-NID3000-2C</td>
<td>34</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-5C</td>
<td>34</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-16C</td>
<td>34</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-32C</td>
<td>34</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000-64C</td>
<td>34</td>
</tr>
<tr>
<td>IBOX-NBF-NID3000</td>
<td>34</td>
</tr>
<tr>
<td>IBS-LIDW</td>
<td>44, 82</td>
</tr>
<tr>
<td>IDX-751 EA</td>
<td>180</td>
</tr>
<tr>
<td>IDX-751 EA-WH</td>
<td>180</td>
</tr>
<tr>
<td>MX-1E</td>
<td>181</td>
</tr>
<tr>
<td>IRK-2E-B</td>
<td>84</td>
</tr>
<tr>
<td>IRK-2E</td>
<td>46, 83</td>
</tr>
<tr>
<td>IRK-BOOST</td>
<td>84</td>
</tr>
<tr>
<td>IRK-E-SI</td>
<td>46, 84</td>
</tr>
<tr>
<td>IRK-W-624</td>
<td>84</td>
</tr>
<tr>
<td>IRK-W-1224</td>
<td>47</td>
</tr>
<tr>
<td>IRX-751CTEM-I9M</td>
<td>41</td>
</tr>
<tr>
<td>IRX-751CTEM-WH</td>
<td>41</td>
</tr>
<tr>
<td>ISO24-1</td>
<td>60</td>
</tr>
<tr>
<td>IS-OFC-NID3000-1C</td>
<td>34</td>
</tr>
<tr>
<td>IS-OFC-NID3000-2C</td>
<td>34</td>
</tr>
<tr>
<td>IS-OFC-NID3000-5C</td>
<td>34</td>
</tr>
<tr>
<td>IS-OFC-NID3000-16C</td>
<td>34</td>
</tr>
<tr>
<td>IS-OFC-NID3000-32C</td>
<td>34</td>
</tr>
<tr>
<td>ISOX-8</td>
<td>20</td>
</tr>
<tr>
<td>ITAC</td>
<td>116</td>
</tr>
<tr>
<td>ITS-BOX</td>
<td>32</td>
</tr>
</tbody>
</table>

**K**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>K20SS-S-01</td>
<td>104</td>
</tr>
<tr>
<td>K21SS-S-01</td>
<td>104</td>
</tr>
<tr>
<td>K30SS-S-01</td>
<td>104</td>
</tr>
<tr>
<td>KL1 X 5</td>
<td>54, 103</td>
</tr>
<tr>
<td>L-KB-1.30G</td>
<td>181</td>
</tr>
</tbody>
</table>

**L**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-SMC-64Z-V2</td>
<td>128</td>
</tr>
<tr>
<td>LHD-BLACK</td>
<td>236</td>
</tr>
<tr>
<td>LHD-BLUE</td>
<td>168</td>
</tr>
<tr>
<td>LHD-DS</td>
<td>167</td>
</tr>
</tbody>
</table>

**M**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M02-04-00</td>
<td>246</td>
</tr>
<tr>
<td>MBA-G000SF</td>
<td>101</td>
</tr>
<tr>
<td>M20-DIN</td>
<td>59</td>
</tr>
<tr>
<td>M200-PMB</td>
<td>59</td>
</tr>
<tr>
<td>M200-SMB KO</td>
<td>59, 179</td>
</tr>
<tr>
<td>M700KACI-FF</td>
<td>51</td>
</tr>
<tr>
<td>M700KACI-FF-x</td>
<td>52</td>
</tr>
<tr>
<td>M700KACI-FQ</td>
<td>52</td>
</tr>
<tr>
<td>M700KACI-FQ-x</td>
<td>52</td>
</tr>
<tr>
<td>M700WCP-R-I-SF</td>
<td>52</td>
</tr>
<tr>
<td>M700WCP-R-SG</td>
<td>52</td>
</tr>
<tr>
<td>M700WCP-x-1SF</td>
<td>53</td>
</tr>
<tr>
<td>M700WCP-x-SG</td>
<td>53</td>
</tr>
<tr>
<td>M700X</td>
<td>58</td>
</tr>
<tr>
<td>M701-240-DIN</td>
<td>58</td>
</tr>
<tr>
<td>M701-240-KO</td>
<td>58</td>
</tr>
<tr>
<td>M701-240</td>
<td>57</td>
</tr>
<tr>
<td>M701</td>
<td>57</td>
</tr>
<tr>
<td>M710-70A</td>
<td>56</td>
</tr>
<tr>
<td>M710</td>
<td>181</td>
</tr>
<tr>
<td>M720-72A</td>
<td>57</td>
</tr>
<tr>
<td>MA05/D/2</td>
<td>232</td>
</tr>
<tr>
<td>MA10/D/2</td>
<td>232</td>
</tr>
<tr>
<td>MA15/D/2/SI</td>
<td>232</td>
</tr>
<tr>
<td>MCP1A-R470FF-01S</td>
<td>176</td>
</tr>
<tr>
<td>MCP1A-R470FF-01</td>
<td>99</td>
</tr>
<tr>
<td>MCP1A-R470FG-01S</td>
<td>176</td>
</tr>
<tr>
<td>MCP1A-R470FG-01</td>
<td>99</td>
</tr>
<tr>
<td>MCP2A-R470FF-01</td>
<td>99</td>
</tr>
<tr>
<td>MCP2A-R470FG-01</td>
<td>99</td>
</tr>
<tr>
<td>MCP3A-R000FF-01S</td>
<td>177</td>
</tr>
<tr>
<td>MCP3A-R000FF-01</td>
<td>100</td>
</tr>
<tr>
<td>MCP3A-R000FG-01S</td>
<td>177</td>
</tr>
<tr>
<td>MCP3A-R000FG-01</td>
<td>100</td>
</tr>
<tr>
<td>MCP3A-x000FF-11</td>
<td>100</td>
</tr>
<tr>
<td>MCP3A-x000FG-11</td>
<td>100</td>
</tr>
<tr>
<td>MCP4A-G0005G-12</td>
<td>101</td>
</tr>
<tr>
<td>MCP4A-R000FF-01</td>
<td>100</td>
</tr>
<tr>
<td>MCP4A-R000FG-01</td>
<td>100</td>
</tr>
<tr>
<td>MCP4A-x000FF-11</td>
<td>100</td>
</tr>
<tr>
<td>MCP4A-x000FG-11</td>
<td>100</td>
</tr>
<tr>
<td>MCP-LABEL F 028</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 048</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 056</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 071</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 078</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 081</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 082</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 138</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 217</td>
<td>55, 106</td>
</tr>
<tr>
<td>MCP-LABEL F 218</td>
<td>55, 106</td>
</tr>
</tbody>
</table>

**N**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAS-2 FIL</td>
<td>192</td>
</tr>
<tr>
<td>NAS-2 FIL-INT</td>
<td>192</td>
</tr>
<tr>
<td>NAS-2 KEYPAD</td>
<td>192</td>
</tr>
<tr>
<td>NSB4</td>
<td>111</td>
</tr>
<tr>
<td>NSB/LID/R</td>
<td>111</td>
</tr>
<tr>
<td>NSB/LID/W</td>
<td>111</td>
</tr>
<tr>
<td>NF3K-OPTO-ESPA</td>
<td>33</td>
</tr>
<tr>
<td>NF50/CAB-A1/xx</td>
<td>12</td>
</tr>
<tr>
<td>NF50/CAB-B1/xx</td>
<td>12</td>
</tr>
<tr>
<td>NF50/CAB-C2/xx</td>
<td>12</td>
</tr>
<tr>
<td>NF3000/64 SMC-V2-12U</td>
<td>119</td>
</tr>
<tr>
<td>NF3000/128 SMC-V2-21U</td>
<td>119</td>
</tr>
<tr>
<td>NF3000-CAB-B1/xx</td>
<td>18</td>
</tr>
<tr>
<td>NF3000-CAB-C2/xx</td>
<td>18</td>
</tr>
<tr>
<td>NF3000-CAB-D2/xx</td>
<td>18</td>
</tr>
<tr>
<td>NF3002/CAB-B1/xx</td>
<td>13</td>
</tr>
<tr>
<td>NF52</td>
<td>73</td>
</tr>
<tr>
<td>NF54</td>
<td>73</td>
</tr>
<tr>
<td>NF58</td>
<td>73</td>
</tr>
<tr>
<td>NF57</td>
<td>133</td>
</tr>
<tr>
<td>NF57/1/11</td>
<td>133</td>
</tr>
<tr>
<td>NF57/1/12</td>
<td>133</td>
</tr>
<tr>
<td>NF57/1/22</td>
<td>133</td>
</tr>
<tr>
<td>NF57/1/BEAM</td>
<td>49</td>
</tr>
<tr>
<td>NF57/1/T</td>
<td>49</td>
</tr>
<tr>
<td>NF57/1/WC</td>
<td>66</td>
</tr>
<tr>
<td>NF57/1/BS</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/BS-IV</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/BS-B</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/DMK</td>
<td>54</td>
</tr>
<tr>
<td>NF57/1/DMR</td>
<td>54</td>
</tr>
<tr>
<td>NF57/1/OPT-BK</td>
<td>41</td>
</tr>
<tr>
<td>NF57/1/OPT</td>
<td>41</td>
</tr>
<tr>
<td>NF57/1/SMT-2-BK</td>
<td>41</td>
</tr>
<tr>
<td>NF57/1/SMT2</td>
<td>39</td>
</tr>
<tr>
<td>NF57/1/SMT3</td>
<td>39</td>
</tr>
<tr>
<td>NF57/1/TDIFF-BK</td>
<td>41</td>
</tr>
<tr>
<td>NF57/1/TDIFF</td>
<td>38</td>
</tr>
<tr>
<td>NF57/1/TFIX58</td>
<td>38</td>
</tr>
<tr>
<td>NF57/1/TFIX78</td>
<td>38</td>
</tr>
<tr>
<td>NF57/1/WS-A</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/WS-B</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/WS-F</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/WS-S</td>
<td>65</td>
</tr>
<tr>
<td>NF57/1/WS-W</td>
<td>64</td>
</tr>
<tr>
<td>NF57/1/WS-L</td>
<td>64</td>
</tr>
<tr>
<td>NF57/1/MM-1M</td>
<td>61</td>
</tr>
<tr>
<td>NF57/1/OPT</td>
<td>40</td>
</tr>
<tr>
<td>NF57/1/SMT-3-BK</td>
<td>40</td>
</tr>
<tr>
<td>NF57/1/SMT3</td>
<td>40</td>
</tr>
<tr>
<td>NF57/1/TDIFF-IV</td>
<td>40</td>
</tr>
<tr>
<td>NF57/1/TFIX58-IV</td>
<td>40</td>
</tr>
<tr>
<td>Reference</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------</td>
<td>------</td>
</tr>
<tr>
<td>NFX-TFIX78-IV</td>
<td>40</td>
</tr>
<tr>
<td>NP2.3-12</td>
<td>224</td>
</tr>
<tr>
<td>NP7-12</td>
<td>224</td>
</tr>
<tr>
<td>NP12-6</td>
<td>224</td>
</tr>
<tr>
<td>NP12-12</td>
<td>224</td>
</tr>
<tr>
<td>NP17-12</td>
<td>225</td>
</tr>
<tr>
<td>NP24-12</td>
<td>225</td>
</tr>
<tr>
<td>NP38-12</td>
<td>225</td>
</tr>
<tr>
<td>NP65-12</td>
<td>225</td>
</tr>
<tr>
<td>NRX-DKMR</td>
<td>159</td>
</tr>
<tr>
<td>NRXI-GATE</td>
<td>156</td>
</tr>
<tr>
<td>NRX-OPT</td>
<td>157</td>
</tr>
<tr>
<td>NRX-REP</td>
<td>156</td>
</tr>
<tr>
<td>NRX-SMT3</td>
<td>158</td>
</tr>
<tr>
<td>NRX-TDIFF</td>
<td>157</td>
</tr>
<tr>
<td>NRX-TFIX58</td>
<td>158</td>
</tr>
<tr>
<td>NRX-USB</td>
<td>155</td>
</tr>
<tr>
<td>NRX-WCP</td>
<td>159</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Index
Reference

Page

Reference

Page

Reference

Page

SK8R
SK-16R
SL517
SL523
SL647
SMB6-V0
SMB500
SMBW-VO
SMK400EAP-IV
SMK400EAP
SMK400E
SOA-875
SOLO 100
SOLO 101
SOLO 108
SOLO 200
SOLO 330
SOLO 424
SOLO 460-001
SOLO 461
SOLO 610
SOLO 713-001
SOLO 726-101
SOLO 760-001
SOLO 808
SOLO 809
SOLO 810
SOLO 811
SOLO 814
SOLO 822
SOLO A7
SOLOADAPT HWKIT
SOR-873P
SPARE 1002
SPARE 1005
SPARE 1028
SPARE 1049
SPARE LOCK 901
SPR-PRL-BASE-1
SPR-PRL-BASE-2
SPR-PRL-CPU
SPR-PRL-DOOR
SPR-PRL-PSU
SR0T
SR1T
ST.G/8REL
ST.G/BOX
STGD/AD2
STGD/AD3
ST.G/IN8-S
ST.G/OUT16-S
ST.G/SER++
STI 6530/n
STI 6531/n
STI 6532/n
STI 6533/n
STI 6534/n
STI 6535/n
STI 9601
STI 9602
STI 9604
STI 9605
STI 9606
STI 9609
STI 9610
STI 9617
STI 9621
STI 9624
STI 9625
STI 9640
STI 9641
STI 9645
STI 9649
STI 9706

202
202
215
215
215
62
181
62
46
44
82
188
241
240
241
241
241
241
254
241
240
241
248, 254
254
239
239
239
240
240
240
239
160
188
254
254
254
254
69
69
69
69
69
69
106
53
205
205
215
215
205
205
205
235
235
235
235
235
236
233
233
233
233
233
233
233
237
237
234
234
237
237
237
237
234

STI 9707
STI 9840
STI 9841
STI/BS
ST.MTS/S1-64B
ST.MTS/S1-128B
ST.MTS/S1-256B
ST.MTS/S1
ST.PL4/ESP
STPL4+
ST.S3REL
ST.S/CKD
ST.S/IDI
ST.SX/IDI+
Sx0T
Sx1T

234
235
234
236
205
205
205
205
208
208
214
214
214
206
106
53

VLP-400
VLS-204
VLS-214
VLS-304
VLS-314
VLS-600
VLS-700
VMB/267V40
VSN-4REL
VSN-232
VSN-LL
VSP-005
VSP-850-G
VSP-850-R
VSP-855-4
VSP-855-20
VTX+XA

138
139
140
140
140
139
139
205
116
116
128
192
192
192
192
192
253

1

T
W
TC3-3PACK-001
TCF-142-M-ST
TCF-142-S-ST
TESTIFIRE 25
TESTIFIRE 1001-001
TESTIFIRE 2001-001
TESTIFIRE 6001-001
TESTIFIRE 6201-001
TESTIFIRE 9001-001
TESTIFIRE 9201-001
TFT-SUPRA
TG-GSM KIT
TG-IP-1
TMP2-D-A257R1A
TMP2-D-A257S1A
TMP2-D-C90R1A
TMP2-D-C90S1A
TMP2-D-D110R1A
TMP2-D-D110S1A
TMP2-P-A257R1A
TMP2-P-A257S1A
TMP2-P-C90R1A
TMP2-P-C90S1A
TMP2-P-D110R1A
TMP2-P-D110S1A
TMP2-ST14
TMP2-TO-A257R1A
TMP2-TO-A257S1A
TMP2-TO-C90R1A
TMP2-TO-C90S1A
TMP2-TO-D110R1A
TMP2-TO-D110S1A
TMP_Configurator
TS3-001
TS3-3PACK-001
TSZ 0400

244
36
36
244
242
243
242
243
242
243
128
31
32
171
171
171
171
171
171
171
171
171
171
171
171
172
171
172
171
172
172
172
173
244
244
230

U
UGP100-45K
UGP100-85K

216
216

WB-1AP-IV
WB-1AP
WCK-VIEW
WCP1A-R470SF-01
WCP1A-R470SF-01IS
WCP1A-R470SG-01
WCP1A-R470SG-01IS
WCP1A-x470SF-01IS
WCP1A-x470SF-11
WCP1A-x470SG-01IS
WCP1A-x470SG-11
WCP3A-R000SF-01
WCP3A-R000SF-01IS
WCP3A-R000SG-01
WCP3A-R000SG-01IS
WCP3A-x000SF-01IS
WCP3A-x000SF-11
WCP3A-x000SG-01IS
WCP3A-x000SG-11
WDD
WF1-EN54
WFD20EN
WFD25EN
WFD30EN
WFD40EN
WFD60EN
WFD80EN
WFDT
WPW
WRR
Wx9201
Wx9202
Wx9203
Wx9301
Wx9302
Wx9303
Wx9304
Wx9402
Wx9403-11

2
46, 83
44
42
102
177
102
177
178
102
178
102
101
178
101
178
178
102
178
102
66
69, 112
125
125
125
126
126
126
127
66
66
104
104
104
105
105
105
105
105
105

3
4
5
6
7
8

X
V
V6/B/24V
V6/C/24V
V6/G/24V
V6/R/24V
V6/Y/24V
VLC-500RO
VLF-250
VLF-500
VLP-002
VLP-012

185
185
185
184
185
137
136
136
138
138

XC70
XC100
XC100D
XCM100
XCM100D
XH100
XHM100
XS100
XS100T
XSM100

259
259
259
260
260
257
258
257
257, 258
258

267


## Index

<table>
<thead>
<tr>
<th>Reference</th>
<th>Page</th>
<th>Reference</th>
<th>Page</th>
<th>Reference</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>XW100</td>
<td>257, 258, 259, 260</td>
<td>Z-SPSTAXO1SS</td>
<td>216</td>
<td>Z-SPXCDALMB1</td>
<td>200</td>
</tr>
<tr>
<td>Y</td>
<td></td>
<td>Z-SPXCDALMF1</td>
<td>200</td>
<td>Z-SPXCDALMG1</td>
<td>200</td>
</tr>
<tr>
<td>Y05D</td>
<td>174</td>
<td>Z-SPXCDALMHX</td>
<td>200</td>
<td>Z-SPXCDALMO1</td>
<td>200</td>
</tr>
<tr>
<td>Y05/R/IS</td>
<td>183</td>
<td>Z-SPXCDALMRX</td>
<td>200</td>
<td>Z-SPXCDASM1</td>
<td>200</td>
</tr>
<tr>
<td>Y06/R/24V</td>
<td>184</td>
<td>Z-SPXCDASM1C1</td>
<td>200</td>
<td>Z-SPXCDASMFX</td>
<td>199</td>
</tr>
<tr>
<td>Y08/SD_YA80/D/RF/SU</td>
<td>174</td>
<td>Z-SPXCDASMG1</td>
<td>200</td>
<td>Z-SPXCDASMH1</td>
<td>200</td>
</tr>
<tr>
<td>Y72221</td>
<td>180</td>
<td>Z-SPXCDASM1</td>
<td>199</td>
<td>Z-SPXCDASM1C1</td>
<td>199</td>
</tr>
<tr>
<td>YL6/R/24V</td>
<td>184</td>
<td>Z-SPXCDASM1C1</td>
<td>199</td>
<td>Z-SPXCDASM1C1C1</td>
<td>199</td>
</tr>
<tr>
<td>Z</td>
<td></td>
<td>Z-SPXCDCC</td>
<td>201</td>
<td>Z-SPXCDMDK</td>
<td>201</td>
</tr>
<tr>
<td>Z-00780-A-0100</td>
<td>201</td>
<td>Z-SPXCDMTN</td>
<td>201</td>
<td>Z-SPXCD MTTR</td>
<td>201</td>
</tr>
<tr>
<td>Z-00780-A-0160</td>
<td>199</td>
<td>Z-TP11DC</td>
<td>216</td>
<td>Z-TP11DC</td>
<td>216</td>
</tr>
<tr>
<td>Z-02000-A-1635</td>
<td>199</td>
<td>Z-TP11ADM</td>
<td>216</td>
<td>Z-TP11ADM</td>
<td>216</td>
</tr>
<tr>
<td>Z-02000-A-1640</td>
<td>199</td>
<td>Z-TP11AIM</td>
<td>216</td>
<td>Z-TP11AIM</td>
<td>216</td>
</tr>
<tr>
<td>Z-02000-A-1642</td>
<td>199</td>
<td>Z-TP11VM</td>
<td>216</td>
<td>Z-TP11VM</td>
<td>216</td>
</tr>
<tr>
<td>Z-02000-A1645</td>
<td>252</td>
<td>Z-TP11WB</td>
<td>216</td>
<td>Z-TP11WB</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1100</td>
<td>196</td>
<td>Z-TP4CMDM</td>
<td>216</td>
<td>Z-TP4CMDM</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1130</td>
<td>216</td>
<td>Z-TP4CMIM</td>
<td>216</td>
<td>Z-TP4CMIM</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1300</td>
<td>197</td>
<td>Z-TP4DC</td>
<td>216</td>
<td>Z-TP4DC</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1301</td>
<td>197</td>
<td>Z-TP4INT</td>
<td>216</td>
<td>Z-TP4INT</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1302</td>
<td>197</td>
<td>Z-TP4MADDM</td>
<td>216</td>
<td>Z-TP4MADDM</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1303</td>
<td>197</td>
<td>Z-TP4MAIM</td>
<td>216</td>
<td>Z-TP4MAIM</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1304</td>
<td>197</td>
<td>Z-TP4MVDM</td>
<td>216</td>
<td>Z-TP4MVDM</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1305</td>
<td>196</td>
<td>Z-TP4MVIM</td>
<td>216</td>
<td>Z-TP4MVIM</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1306</td>
<td>196</td>
<td>Z-TP4WMB</td>
<td>216</td>
<td>Z-TP4WMB</td>
<td>216</td>
</tr>
<tr>
<td>Z-2106B1307</td>
<td>196</td>
<td>Z-ZDINPSUX1</td>
<td>195</td>
<td>Z-ZDINPSUX1</td>
<td>195</td>
</tr>
<tr>
<td>Z-2106B1310</td>
<td>197</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1311</td>
<td>197</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1313</td>
<td>197</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1314</td>
<td>197</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1315</td>
<td>197</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1316</td>
<td>197</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1545</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1548</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1549</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-2106B1596</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-32020D0765</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-3206B1000</td>
<td>195</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-3206B2000</td>
<td>195</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-3206B3010</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-3206B3020</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-3206B3030</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZB24518</td>
<td>231</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZB24544</td>
<td>231</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZB24578</td>
<td>231</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-CAL-CO</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-CAL-COM</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GasCH4-22-AIR-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GASCO-100-AIR-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GasCO-250-AIR-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GASNOH2S-10-AIR-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GasNH3-25-AIR-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GasNH3-300-AIR-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-GasO2-209-N2-34</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZMCAP/123</td>
<td>253</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZMTEST/2</td>
<td>215</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZM/TEST/3</td>
<td>215</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-REG-0.30</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-S3KCAL</td>
<td>201</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPPCAL</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPPPMTS</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPPPTUB</td>
<td>252</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXA1</td>
<td>198</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXA1SS</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXA2</td>
<td>198</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXA2SS</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXC2</td>
<td>198</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXCSS</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXF1</td>
<td>198</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXF1SS</td>
<td>216</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Z-SPSTAXO1</td>
<td>198</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notes