FN SERVISS

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olympia™ electronics

SAFETY & SECURITY SYSTEMS

for a safer world!

www.olympia-electronics.com

Olympia Electronics SA is the leading company in the Greek security systems industry.

The company is active since 1979 in the development of innovative security systems using state-of-the-art technology.

Our vision

Olympia Electronics looks forward to playing an important role in Southeast Europe for the next decade in the electrical and electronics market. We can say with certainty our need for the following:

- Quality orientation
- Experience
- Competitiveness
- Product recognition
- Total customer service

-our goal-
QUALITY

OLYMPIA ELECTRONICS S.A. aiming in the quality, has adopted in the last years, production and inspection procedures that have supplied the market with products that are totally in accordance with European Norms (EN).

For the production, the company applies advanced systems “world class manufacturing” such as lean systems , TPM, 5S which give it competitive advantages.

Its products allocate certificates from various certification bodies such as: LPCB, Lloyd’s Register H.E.E.Q.A.C, EVPU, BSI, e.t.c.

The company applies a complete management system IQMS "oly q" which include quality management systems, as well as environmental, hygiene and personnel safety management systems.

Olympia Electronics S.A. has been certified according to ISO9001, OHSAS 18001, ISO 14001.

Product categories

- Emergency lighting
- Fire Alarm Systems
  (conventional & analogue addressable)
- Gas detection systems
- Burglar Alarm systems
- Electronic Room Thermostats
- Hotel Access - Card Switches
- Emergency lighting for marine applications
  Fire Alarm Systems for marine applications

Strong points

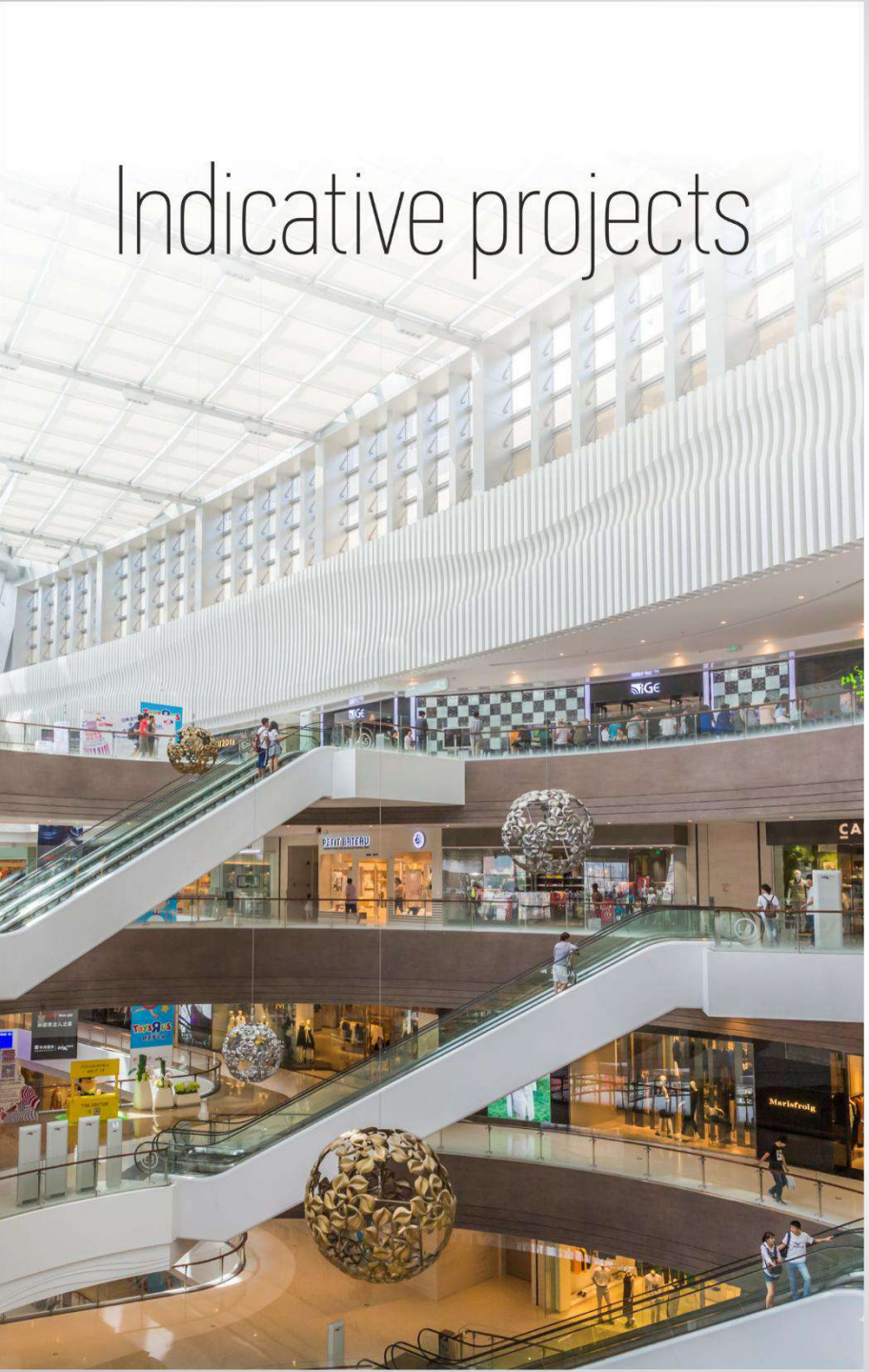
- Leading position in the Greek market of emergency lighting and fire alarm systems.
- Complete product range.
- Targeting flexibility.
- Specific know-how for the lift industry concerning both software and electronics.
- OE already produces in an OEM basis for big global groups in the electronics, safety and security industry.
- Strong branding in the domestic market. - Synergies
- High market penetration in Greece.
- Increasing international orientation.
- Today, exports represent 70% of our sales.
- Strategic geographical position.
- Commitment to innovation and highly specialized human resources with capabilities for fast and effective new product development.

Export sales network

Exports in 72 countries

- European Union (55% of our exports)
- Eastern European countries & Russia
- Middle East & Gulf countries
- Africa
- America

Indicative projects



AIRPORTS
Arlanda Airport / Sweden
Landvetter Airport / Sweden
Macedonia Airport / Greece
Lisbon Airport / Portugal
New Delhi Airport / India
Frankfurt Airport / Germany
El. Venizelos/ Greece
Doha International airport / Qatar
Oslo Airport / Norway

MISCELLANEOUS INSTALLATIONS
Hushagsgymnasiet school / Sweden
Sportsarena Anglagarden / Sweden
Happel Stadium / Wien , Austria
Frescati university library / Sweden
Schwerin metro / Germany
Better Life Appliances for Cayan Tower/ Dubai
Luxembourg science center / Luxembourg
132/33kv Kadrah Grid Station
Desert Night Camp
33kv Tumrait Sub Station
33kv SOHAR Sub Station
Modern Steel
Olympic village / Greece
Twin Tower / Lebanon
Kadrah Grid Station / Oman
ARGO Offices / Prague, Czech Republic Prioritet Serneke
Arena / Sweden
Press center of the Olympic games / Rio, Brazil
Orebro Castle/ Sweden
Metropolitan Medical Center, Athens/ Greece
Cardiological Clinic of Tzaneio Hospital, Athens/ Greece
General Hospital, Athens/ Greece
Hospital Paidon Pentelis, Athens/ Greece
Hellenic Open University/ Greece
Ralleios School of Peiraia/ Greece
General High School, Tripoli/ Greece
School Complex Moraitis, Athens/ Greece
16th School Complex of Patra / Greece
5th Nursery School, Athens/ Greece
OTE Building , Athens/ Greece
OTE Building Ampelokipoi, Athens/ Greece
Law Office Building “Sioufas” , Athens/ Greece
Teleperformance Company , Athens/ Greece
Warehouse of tiles “Lakiotis Company”, Athens/ Greece
Corporate Offices "Nestle", Malta

SHOPPING CENTERS
Armada shopping center / UK
Solaris shopping center / Esthonia
Bergvik shopping center / Sweden
Shopping center Mitt I city / Sweden

HOTELS
Asplund Hotel / Sweden
Movenpick / Petra, Jordan
Hilton, Athens / Greece
Le Royal Hotel / Dbayeh, Lebanon
King George, Athens / Greece
Akti Imperial Deluxe Resort & Spa, Rhodes/ Greece
Sideri, Mykonos/ Greece
Aqua Blue, Santorini/ Greece
Orycheio, Santorini/ Greece
Palmyra, Glifada/ Greece
Acropol, Athens/ Greece
Kalamaki Beach, Korinthos/ Greece
Artemis, Kos/ Greece
Casa Cook, Kos / Greece
Continental, Kos / Greece
Aggrelli, Kos / Greece
Origin Hotel & Appartments, Kos / Greece
Atlantica Thalassa, Kos / Greece
Marmari Beach, Kos/ Greece

PUBLIC PROJECTS
National Road Network Athens - Thessaloniki/ Greece
National Road Network Athens- Kalamata/ Greece
Egnatia Odos / Greece
Underwater Tunnel Actio/ Greece
Rio-Antirio Bridge/ Greece

RESIDENTIAL APARTMENTS
Wien, Austria /
Raffaelgasse 27 1200
Satzingerweg 64 1210
Breitenfuhrterstrasse 223 BPL 4-6 1230
Ernstbrunn, Austria /
Dr. Steiner-Gasse 2 2115
Graz, Austria /
Waagner Biro Stasse 69 8020
Taxach, Austria /
Ringweg 33 5400 RIFerside

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Fire Detection Systems

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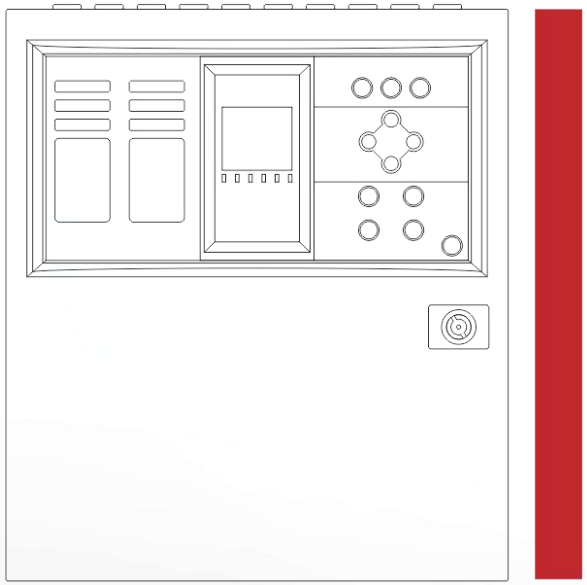
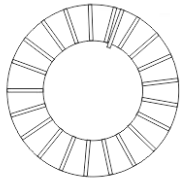
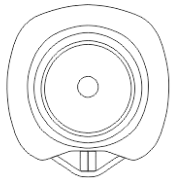
Fire Detection Control Panel



- Fire detection devices



- Fire warning units



- Special Use devices

Fire Detecion Systems

Conventional vs Addressable

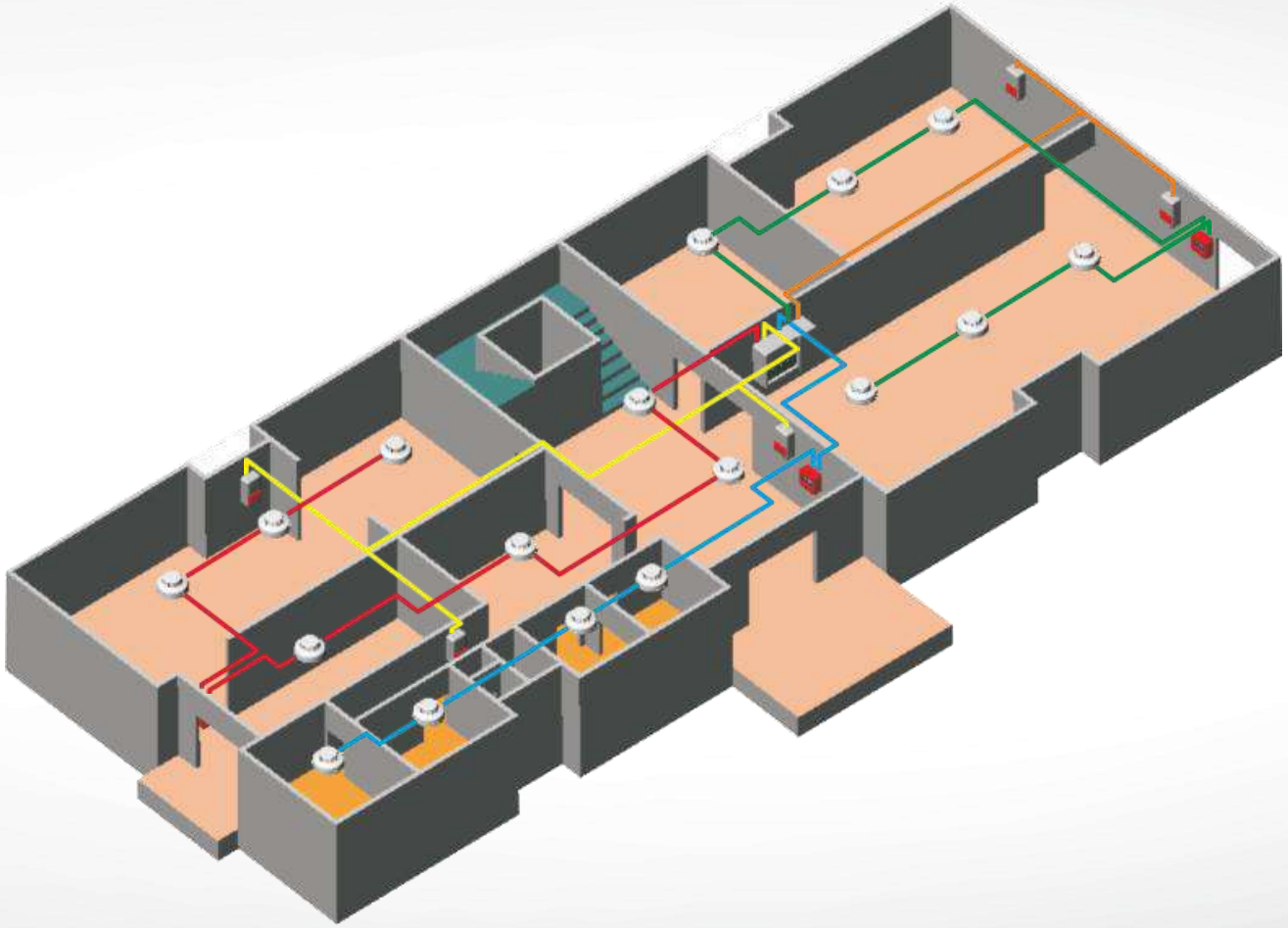
Conventional

- The system is divided into zones. Each zone takes up to 20 devices such us smoke detectors, heat detectors and manual call points.
- Each zone gives an indication signal to the fire detection panel that describes three situations, alarm, fault and quiescent state.

Addressable

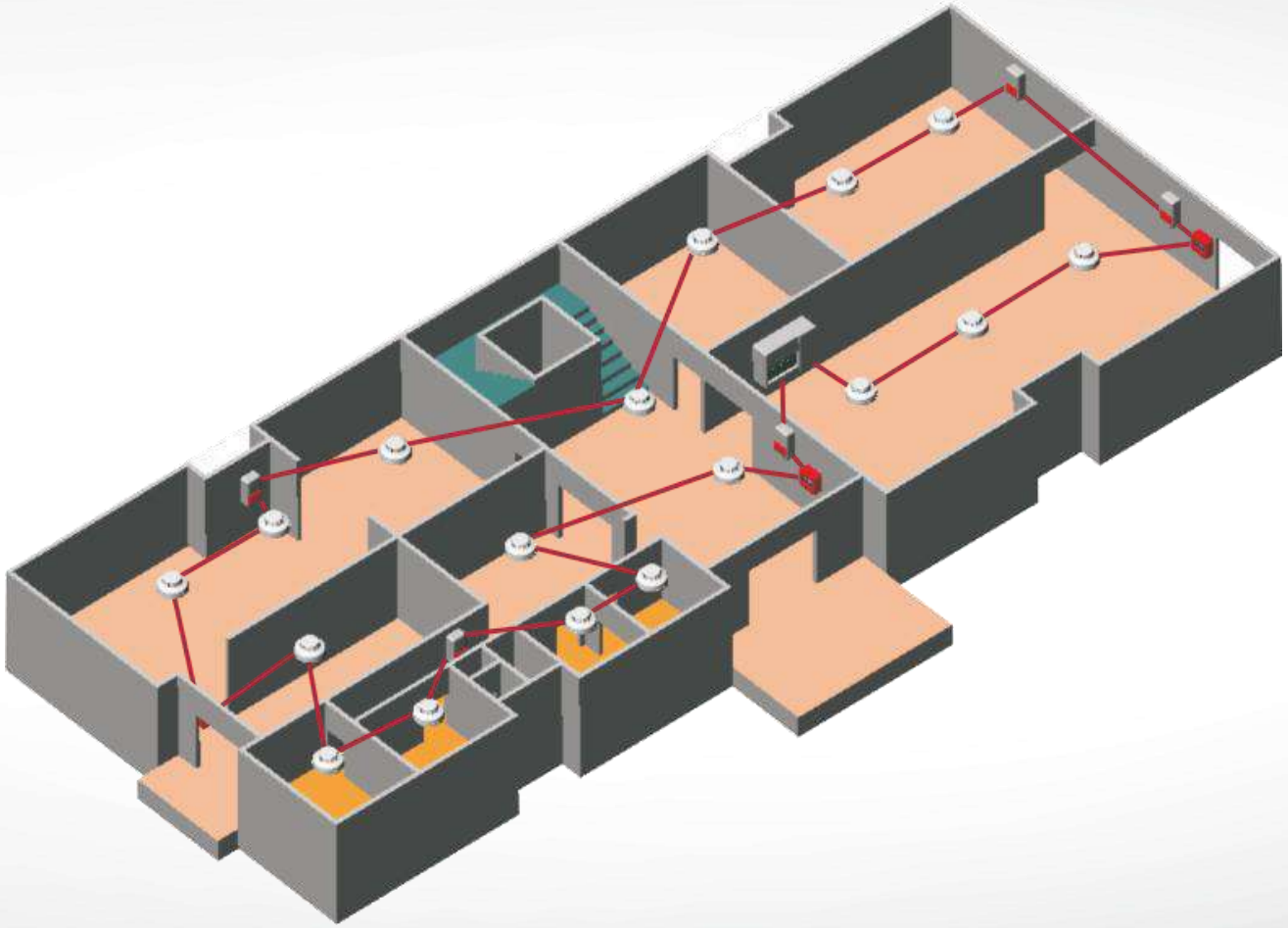
- The devices in this system are connected in loops, have their own address and indicate their situation (alarm, fault and quiescent) to the fire detection panel.
- It enables to have the exact device in the system that gives the alarm compare to conventional systems, where the zones indicate the alarm.

Typical installation example of a conventional fire detection system



- Siren group 1
- Siren group 2
- Zone 1
- Zone 2
- Zone 3

Typical installation example of an addressable fire detection system



- **Fire detection loop**
  Connection of addressable smoke and heat detectors, manual call points and sirens in one loop

Conventional
Fire Detection Systems

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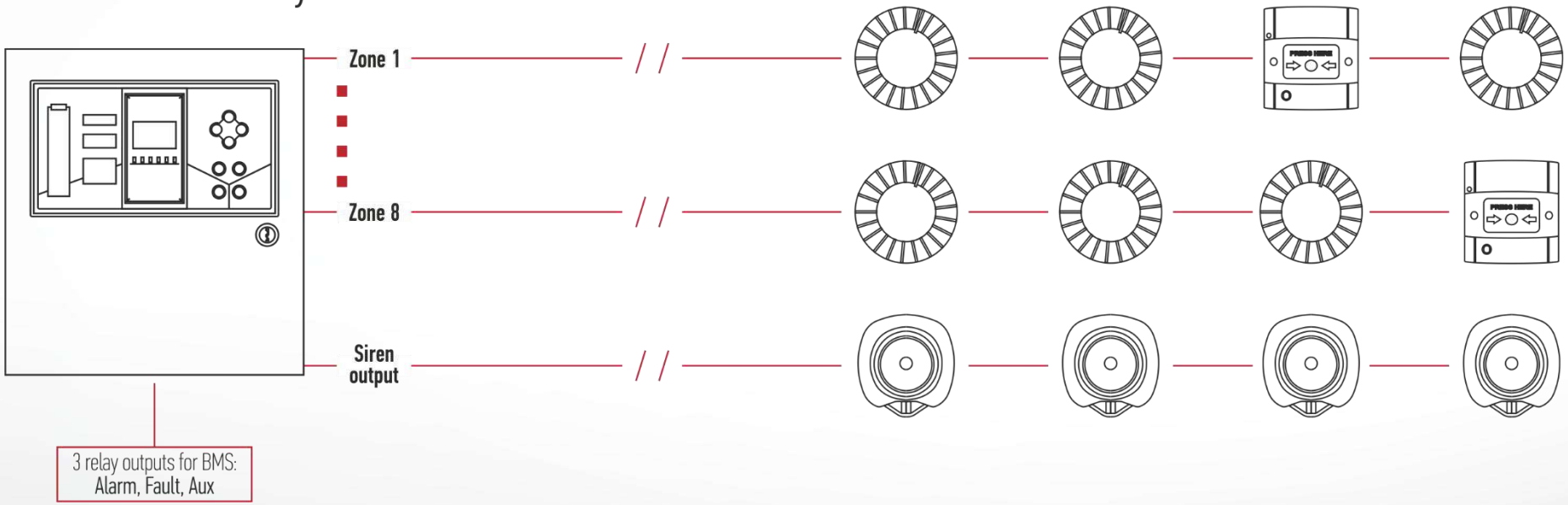
Connection diagram of fire detection system



MAX 20 devices
Conventional detectors, manual call points in each zone

2 siren outputs
You can also have branches in the cabling of the zone

Device wiring

Cable selection

The cross-sections are appearing on the following table.

Cable length (m) / Alarm Current (mA)	200m	500m	1000m	1500m	2000m
100mA	**1.0 mm²**	**1.0 mm²**	**2.0 mm²**	**2.5 mm²**	**2.5 mm²**
250mA	**1.0 mm²**	**1.5 mm²**	**2.5 mm²**	**2.5 mm²**	**2.5 mm²**
300mA	**1.5 mm²**	**1.5 mm²**	**2.5 mm²**	**2.5 mm²**	**2.5 mm²**

Every connection must use a separate cable with a 2-core shielded cable. These connections refer to: conventional siren outputs, 24VM output, 24VP output and loop connection terminals. Don't use the same cable for multiple loops or other outputs. The connection cables should be approved for fire detection installations (i.e. FIP200, MICC and PYROFIL).

All connection wires' cross section must be between 0,7mm² (min) to 2,5mm² (max).
The maximum loop cable length should not exceed 2000m in total length.
The maximum cable resistance per loop should not exceed 50Ω when adding total point internal resistance.

Conventional fire detection panel 2, 4 or 6 zones

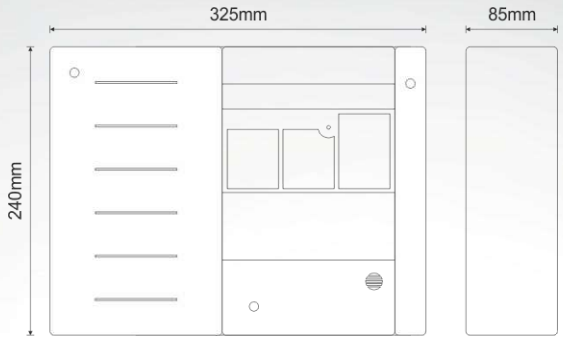
- 2, 4 & 6 zones
- Uniform operations, controls and indications.
- 2 siren outputs, alarm relay
- Output for connecting programmable telephone dialer
- A relay per zone and AUX relay

The family of fire detection panels consist of 3 types (2, 4 and 6 zone) with identical operation and indications. BS-1634 is a 4 zone fire detection panel which have 2 independent siren outputs, Alarm, Fault Relay and a programmable AUX relay. The required batteries for the panels are two A-920 (12V/2.6Ah). All functions and indications are according to European Norms EN 54-2 and EN 54-4.

Specifications

	BS-1632 2 zone fire detection panel	BS-1634 4 zone fire detection panel	BS-1636 6 zone fire detection panel
Mains power input	220-240V AC/50-60HZ		
Consumption	50 VA		
Autonomy	72 hours (Maximum connected detectors 72 and no load at output 24VM and 24VP)		
Charging circuit	Stabilized power supply 27.6V / max. 400mA		
Zone circuits	2 circuits monitored for short and open circuit conditions (maximum current 35mA)	4 circuits monitored for short and open circuit conditions (maximum current 35mA)	6 circuits monitored for short and open circuit conditions (maximum current 35mA)
Alarm circuits	Two 24V circuits that are monitored for open and short circuit conditions (maximum current 300mA each). Each output is protected with a self-reseting electronic fuse.		
Output 24P	24VDC (±3VDC) permanent output with maximum current output 0.3 A The output is protected with a self-reseting electronic fuse.		
Output 24M	24VDC (±3VDC) reset interrupted output with maximum current output 0.3 A The output is protected with a self-reseting electronic fuse.		
Outputs Relays	Three relays contacts are rated at 30VDC and 5A maximum each. Under no circumstances should voltages or currents outside limits be connected. All relays output must be protected with a fuse of the same rating.		
Total load	The total output current (zones circuits, siren circuit, outputs 24P, 24M) must not exceed 600mA. (ImaxA = ImaxB = 600mA, Imin = 30mA)		
Battery Specifications			
Battery Type	Two 12V Lead acid sealed 2.6Ah		
Battery cut-off voltage	21V		
Maximum battery current discharge	900mA		
Battery maximum internal resistance Rimax	1Ohm		
Structural characteristics			
Cover protection	IP 30		
Construction materials	ABS - polycarbonate		
Dimensions (LxWxH)	325 x 240 x 85 mm		
Weight (without batteries)	1.345 gr	1.350 gr	1.360 gr

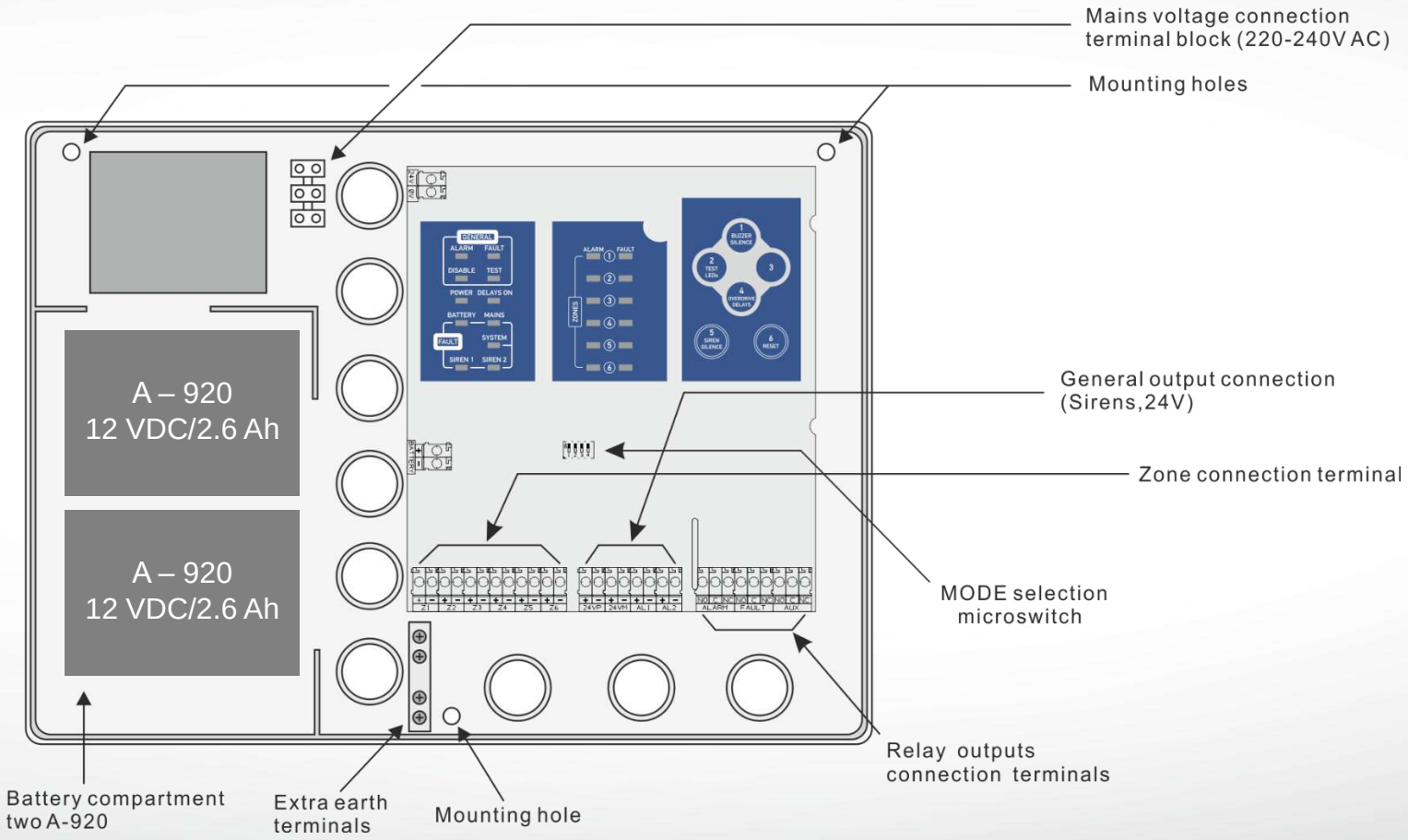
Dimensions in cm



Accessories

A-632
Metallic recess wall mounting base
for BS-1632,BS-1634,BS-1636

Fire Detection Panel 2 - 6 zones



Conventional fire detection panel with 8, 12 or 16 zones

EVPU CE

- 8, 12 & 16 zones
- Uniform operations, controls and indications
- 2 outputs for sirens, an alarm relay, a fault relay and an auxiliary relay.
- History memory
- Ethernet control and programming capability (card GR-8530)

The family consists of 3 panels (8, 12 and 16 zones) with identical controls and indications. They have 2 outputs for sirens, an alarm relay, a fault relay and a programmable auxiliary relay. For there operation, two A-986 (12V/7Ah) batteries are required. Alternatively two A-961 (12V/9Ah) batteries can be used for greater autonomy.
BS-1638 panel has 8 zones. All functions and indications are according to the European norms EN 54-2 and EN 54-4.
The panels offer up to 16 zones and are suitable for large installations such as shopping malls, hotels and factories.
They offer a wide range of settings and characteristics for controlling the installation equipment and sirens which can be easily adjusted using a P/C via an Ethernet connection.

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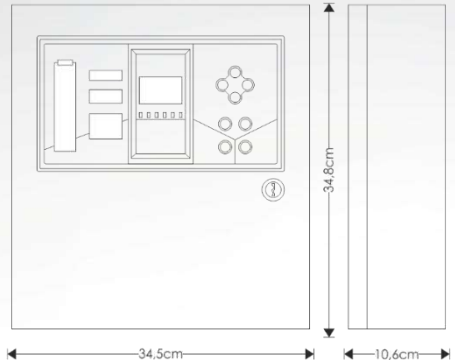
Specifications

	BS-1638 Conventional fire detection panel 8 zones	BS-1642 Conventional fire detection panel 12 zones	BS-1646 Conventional fire detection panel 16 zones
Mains power supply		220-240V AC/50-60HZ	
Consumption		100 VA	
Autonomy		72 hours with two 12V/7Ah batteries	
Alarm circuits		Two 24V circuits that are monitored for open and short - circuit conditions (The maximum current for each circuit is 300mA)	
Output 24P		24VDC (±3VDC) permanent output with a maximum current of 0.3 A. The output is protected by a resetable electronic fuse	
Output 24M		24VDC (±3VDC) output which is interrupted during a reset.	
Output relays		Three relay contacts that can handle up to 30V DC and 5 A maximum. All the output relays must be protected with fuses with the same rating.	
Total power		The total output power (zone circuits, siren circuits, outputs 24P and 24M) must not exceed 1A	
Battery Specifications			
Battery Type		2 sealed lead acid batteries 12V/7A	
Battery cut of voltage		21V	
Maximum current batteries discharge		1A	
Battery maximum internal resistance Rimax		1Ohm	
Structural characteristics			
Cover protection		IP 30	
Construction materials		ABS – polycarbonate, electrostatically painted steel	
Dimensions (LxWxH)		345 x 106 x 348 mm	
Weight (without batteries)	3740gr	3780gr	3820gr

Dimensions in cm



Accessories

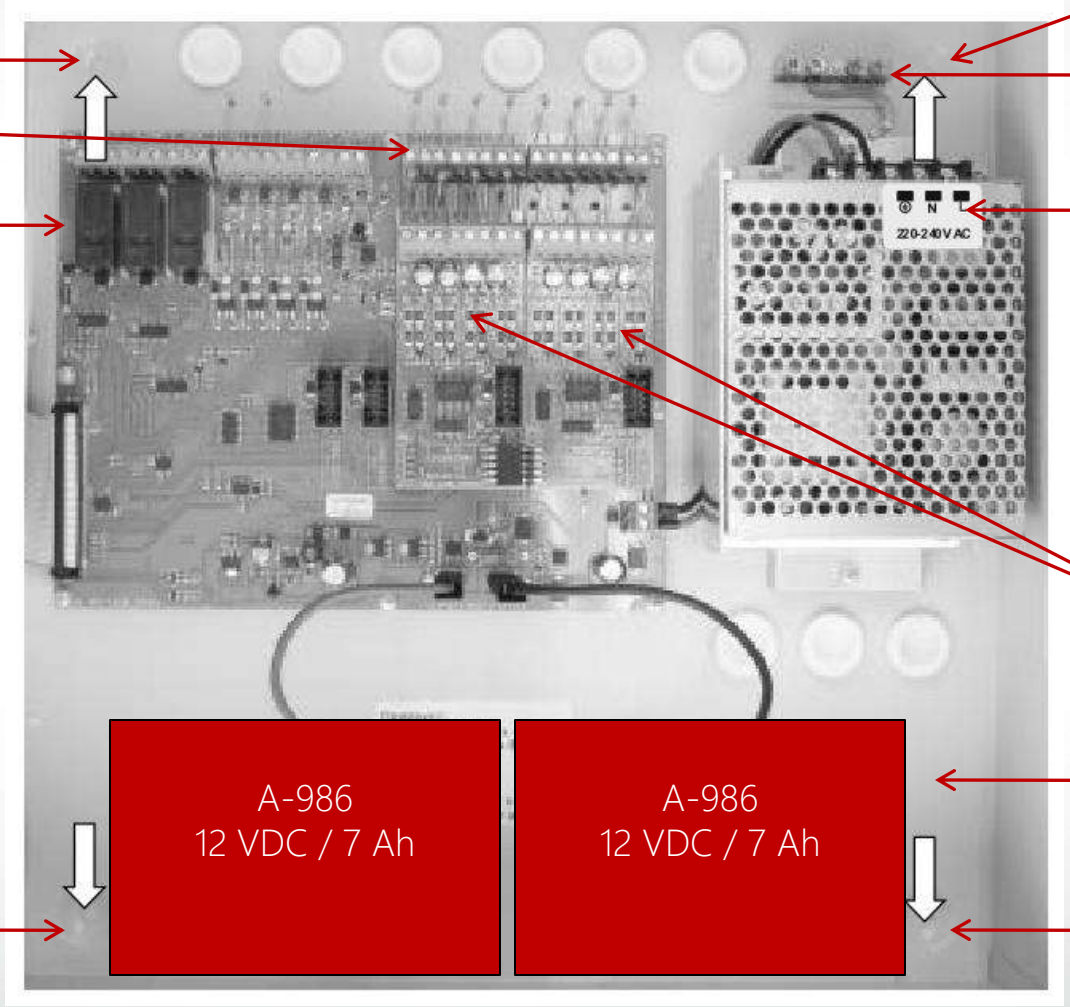
BS-1640
4 zones extension card

BS-1641
4 zones extension card
for BS-1642

GR-8530
Network card through Ethernet

BS-613
Card with 4 zone relays

Conventional fire detection panel with 8, 12 or 16 zones



Panel support position

8-zone connection terminals

Panel relay

Panel support position

Earthing terminals

220 - 240 V AC mains connection terminal

4 zone expansion cards

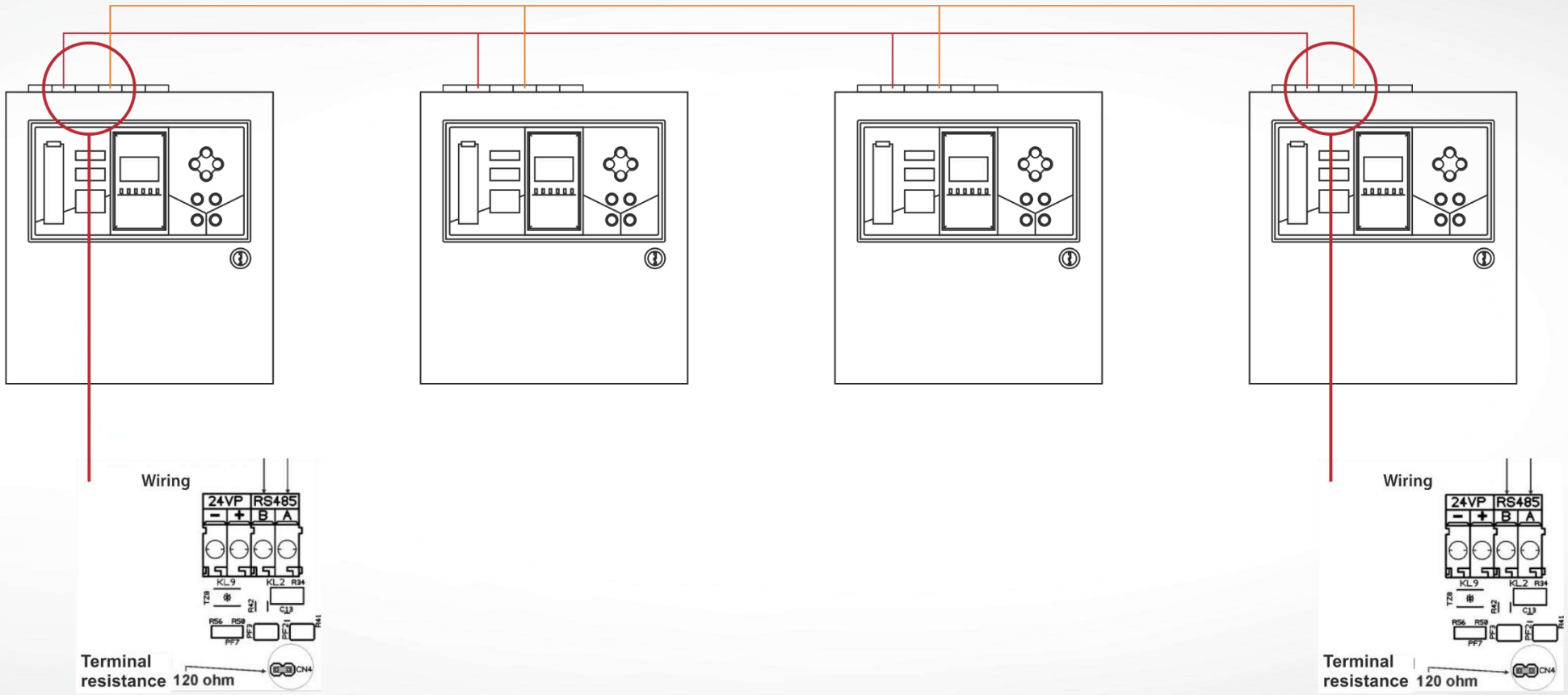
Position of 2 batteries A-986

Panel support position

Panel support position

Connecting panels to a network

(only for conventional 8, 12 & 16 zone panels)

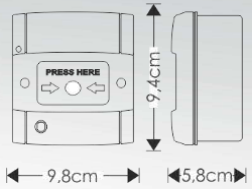


Fire extinguishing panels & accessories

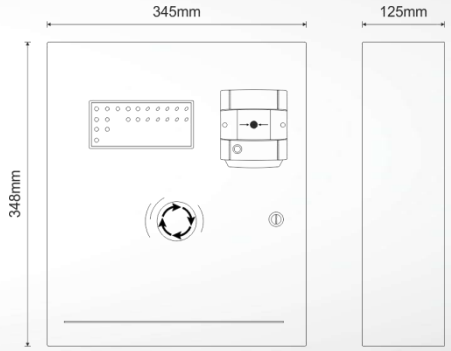
BS-627

IP40

H.E.E.Q.A.C



- One fire extinguish output monitored for open and short circuit. The output can operate with actuators or electro valves.
- Two cross zones for fire detectors.
- One zone for a manual call point to start the extinguish procedure.
- One zone for a manual call point to cancel the extinguish procedure.
- Three modes of operation
- The panel has two independent siren outputs.
- One contact relay for fault status.
- Two fully programmable relay contacts.
- Terminals to communicate with conventional fire detection panels.



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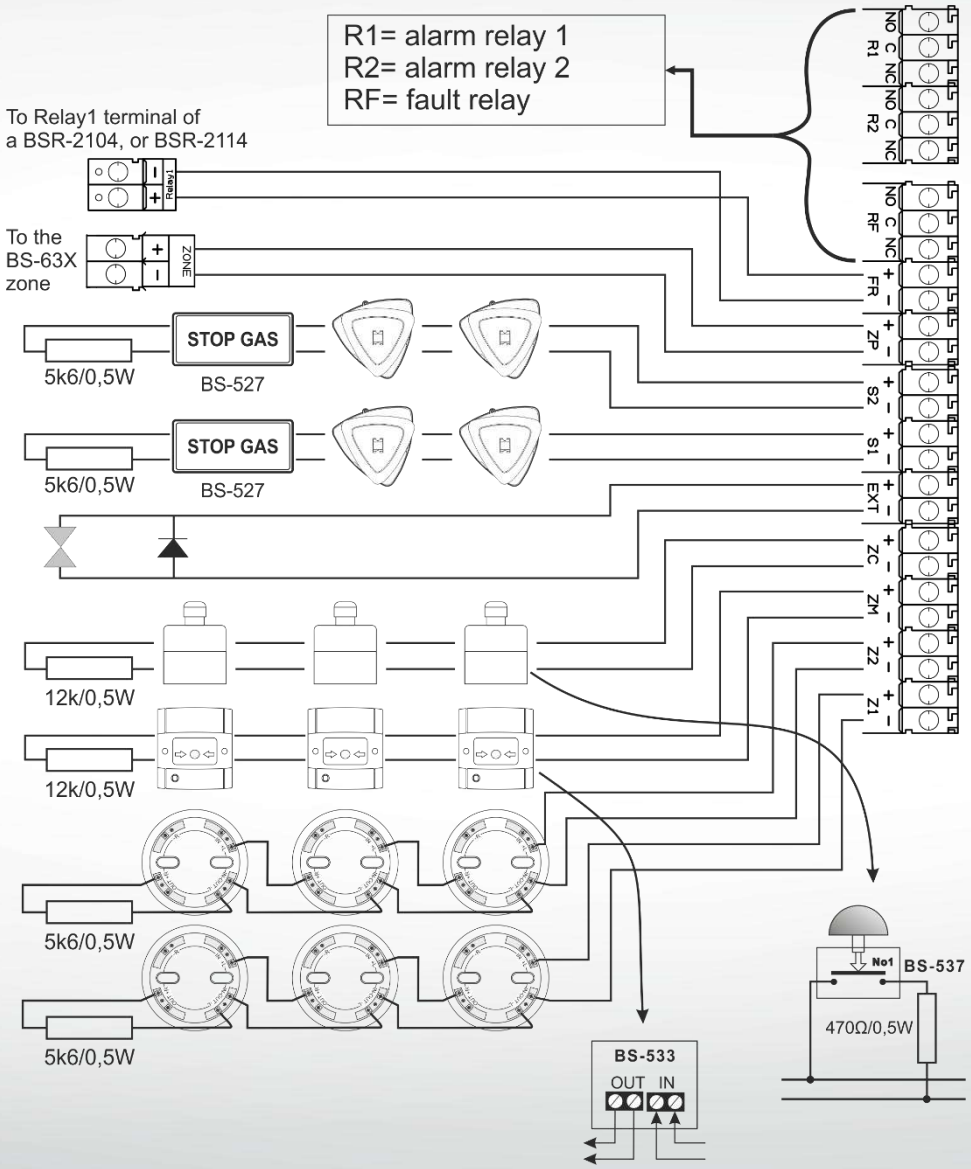
Panel installation

Connecting devices to BS-627 panel



Conventional Detectors

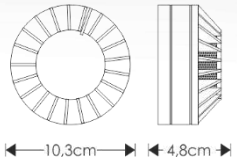
BS-655 - Optical smoke detector base

BS-657 - Optical smoke & rate-of-rise heat detector with base

BS-660 - Heat of rise detector with base

Specifications

Dimensions in cm



Accessories

Base with 24V relay

Remote indicator LED

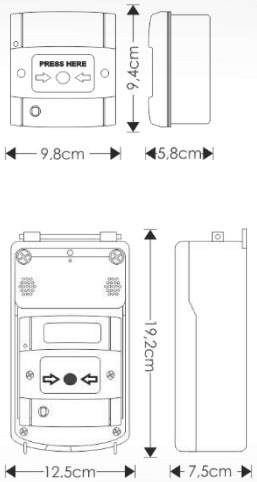
Conventional fire alarm call points

BS-536 - Manual call point with TEST-RESET key

Waterproofing case for fire alarm call point

Specifications

Dimensions in cm



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Conventional sirens & beacons

BS-530, 531 Siren

BS-531/1 Siren with beacon

Specifications

88dB

94dB

HEEBAC

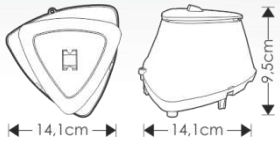
EVPÜ

IP42C

IP65

IP42

Dimensions in cm



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Conventional beam smoke detectors

BS-230 50m beam detector with controller, detection head and 1 mirror, 10mA, 25, 35, 50% Obscuration

BS-232 Detection head with 1 mirror, 2mA, 25, 35, 50% Obscuration

BS-240 100m beam detector with controller, detection head and 1 mirror, 10mA, 25, 35, 50% Obscuration

BS-242 Detection head and 4 mirrors, 2mA, 25, 35, 50% Obscuration

FIRERAY one 5-50m beam detector with mirror, IP55, 5mA, 25, 35, 55, 85% Obscuration

FIRERAY one + 1010-000 50-120m beam detector with mirror, IP55, 5mA, 25, 35, 55, 85% Obscuration

FIRERAY 3000 5-120m beam detector, 22mA, 10-60% Obscuration

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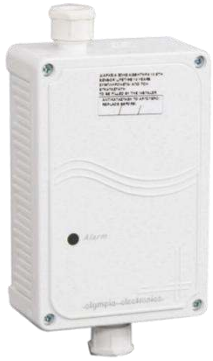
Waterproof flame sensor (UV)

BS-16581 Waterproof flame sensor (without base)



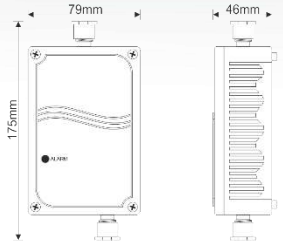
BS-661 Waterproof rate of rise heat detector

Specifications

LPCB

IP65

Dimensions in mm



Accessories

BASE 7127 - Metallic base for sensor BS-16581

Addressable
Fire Detection Systems

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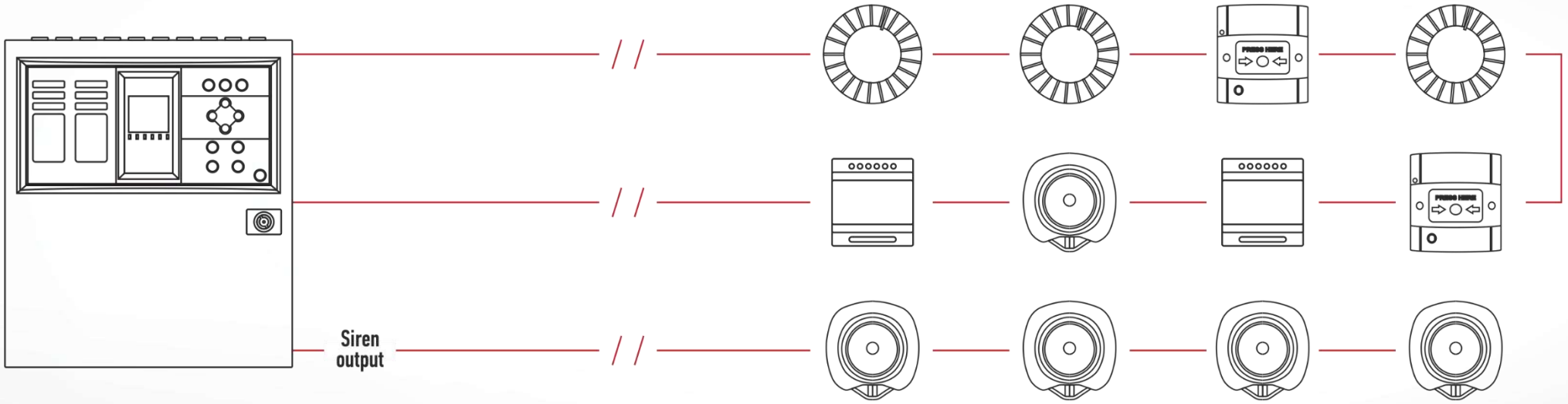
Connection diagram of the new addressable fire detection system



MAX 150 devices
Addressable detectors, manual call points & sirens in each loop

Ability to connect **conventional sirens** in **4** fully monitored siren outputs

Note
Besides the addressable sirens attached on the loop there is the ability to connect extra conventional sirens outputs or connect only conventional sirens

Device wiring

Cable selection

The cross-sections are appearing on the following table.

Cable length (m) / Alarm Current (mA)	200m	500m	1000m	1500m	2000m
100mA	**1.0 mm²**	**1.0 mm²**	**2.0 mm²**	**2.5 mm²**	**2.5 mm²**
250mA	**1.0 mm²**	**1.5 mm²**	**2.5 mm²**	**2.5 mm²**	**2.5 mm²**
300mA	**1.5 mm²**	**1.5 mm²**	**2.5 mm²**	**2.5 mm²**	**2.5 mm²**

Every connection must use a separate cable with a 2-core shielded cable. These connections refer to: conventional siren outputs, 24VM output, 24VP output and loop connection terminals. Don't use the same cable for multiple loops or other outputs. The connection cables should be approved for fire detection installations (i.e. FIP200, MICC and PYROFIL).

All connection wires' cross section must be between 0,7mm² (min) to 2,5mm² (max).
The maximum loop cable length should not exceed 2000m in total length.
The maximum cable resistance per loop should not exceed 50Ω when adding total point internal resistance.

EVPÜ

CE

Modern
Addressable
fire detection panel with

128 zones

1 to 4 loops

150 addressable devices per loop

Suitable for large installations such as: Malls, Hotels, Factories

NEW Addressable Fire Detection System

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Analogue Addressable Fire Alarm Panel

1, 2 or 4 Loops / 128 zones

NEW

EVPU CE

- Produced in accordance with EN54-2, EN54-4.
- 128 zone capability.
- Auto-addressing capabilities.
- 220-240V AC mains power supply.
- It offers 4 fully monitored siren outputs with a rating of 24V / 0,3A and 1 programmable relay, as well as 8 extra relays.
- Incorporated power supply with a rating of 24V/100W and built-in battery charger for 24V batteries with a capacity of up-to 15Ah.
- The panels offer an extensive list of adjustments and characteristics for the control of the installed devices and sirens. These parameters can easily be adjusted using a PC based program.
- The programming of the panel can also be done through an onboard USB.
- Messages can be viewed on LCD display whereas LEDs are used to show basic operations such as alarms, pre alarms and faults.
- The operation is done using the built-in 11 key keypad.
- There is also an incorporated safety lock.
- The maximum delay for the sirens is 10 minutes.
- Optional Ethernet control capability.
- Optional modbus expansion.
- Optional external printer expansion.

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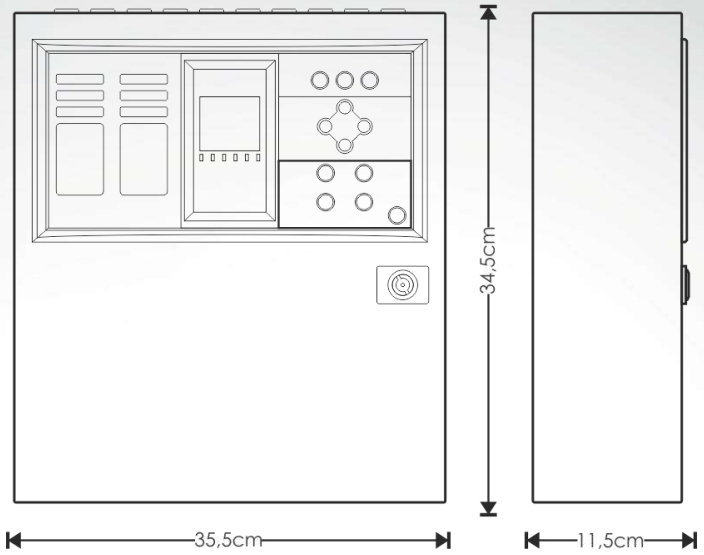
Specifications

	BSR-1001 Addressable fire detection panel 1 loop / 128 zones	BSR-1002 Addressable fire detection panel 2 loops / 128 zones	BSR-1004 Addressable fire detection panel 4 loops / 128 zones
Mains power input		220-240V AC/50-60HZ	
Consumption		130 VA max	
Autonomy		up to 72 hours (without loads at 24VM and 24VP outputs)	
Conventional sounder / siren circuits		4 x 24VDC (± 3VDC) / 300mA max short / open circuit monitored 10kΩ termination resistor	
24VP Output		24VDC (± 3VDC) permanent output / 300mA max short-circuit monitored	
24VM Output		24VDC (± 3VDC) resettable output / 300mA max short-circuit monitored	
Relay Output		Three relay contacts with each one having 30VDC και maxium 5A	
Total Load		The total current of the panel (loops, siren circuits, outputs 24P, 24M) must not exceed 2A	
Battery Specifications			
Battery Type		2 lead batteries sealed 12V / 7-15Ah	
Battery cut-off voltage		20,5V	
Maximum battery current discharge		2A max	
Battery resistance (ESR)		1Ω max(higher values will lead to battery resistance fault)	
Structural characteristics			
Cover protection		IP 30	
Construction materials		ABS/PC, electrostatically painted steel	
Dimensions (LxWxH)		355 x 115 x 345 mm	
Weight (without batteries)	4.08Kgr	4.21Kgr	4.33Kgr

Dimensions in cm

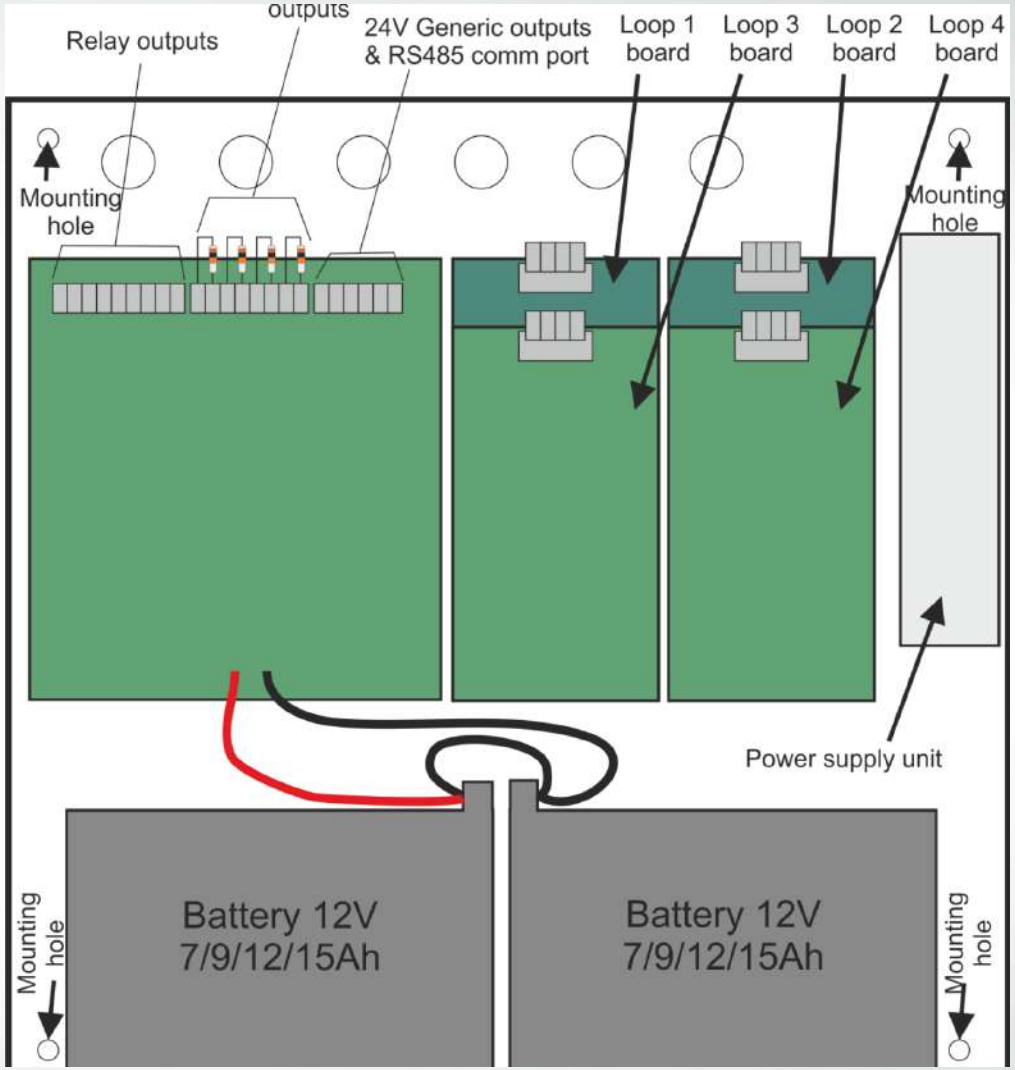


Accessories

NEW Addressable Fire Detection System

Panel installation

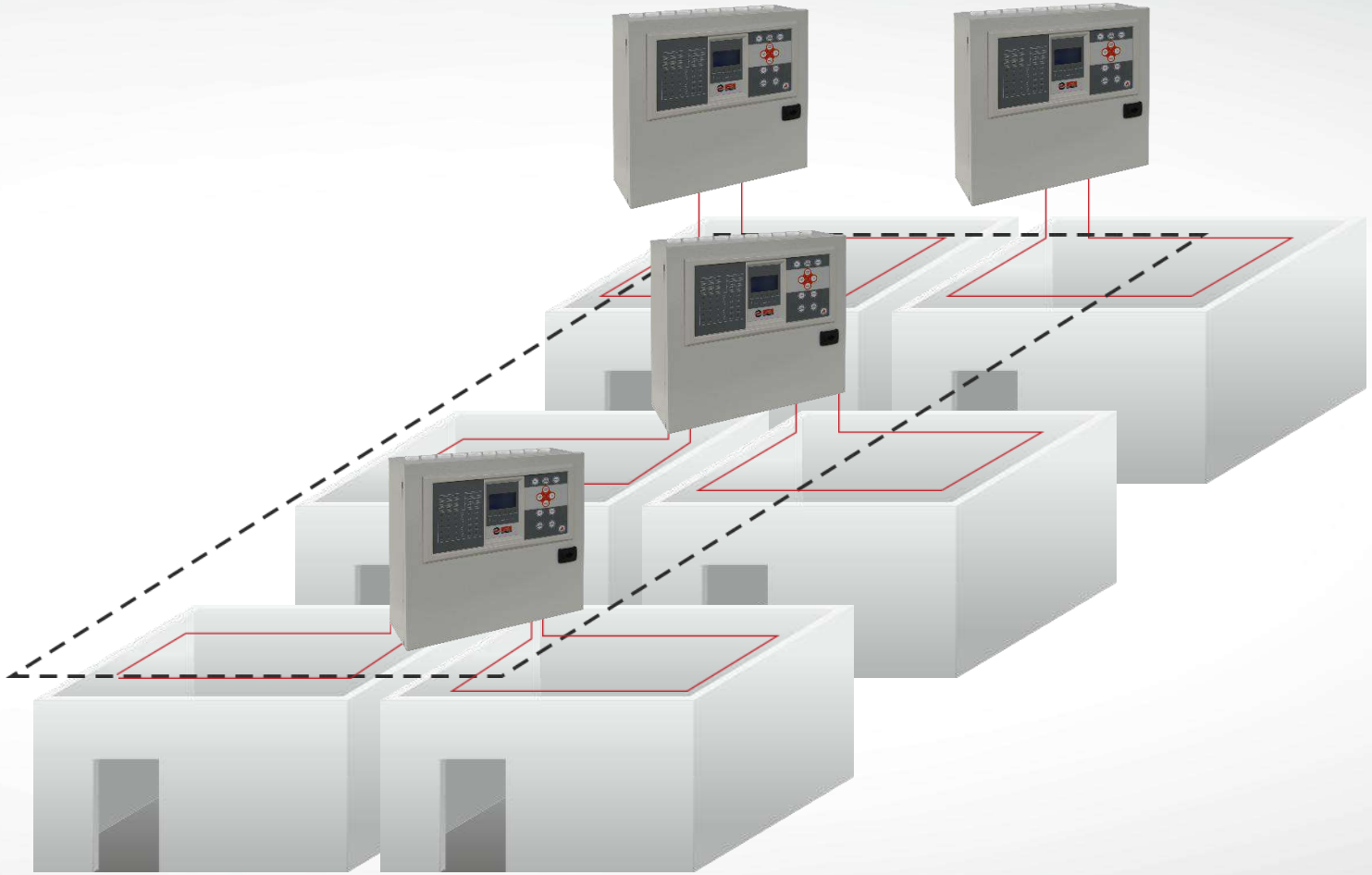
Addressable fire alarm panel with 1, 2 & 4 loops



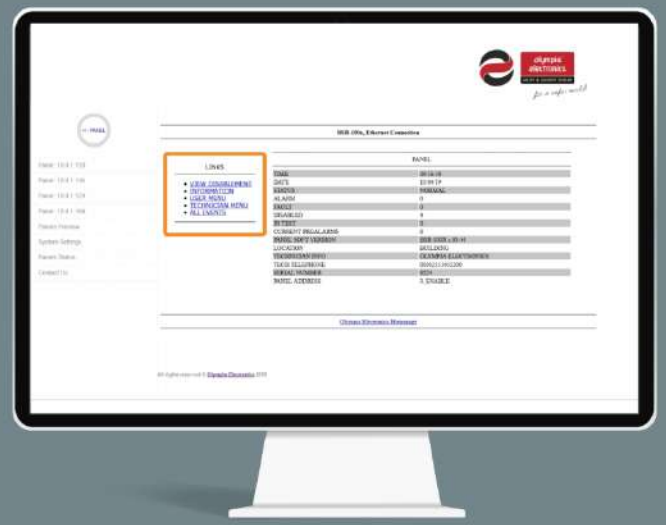
Address Fire BSR-1004

Network capability

In panel network configuration there is one master and three slaves. The network behaves like one big panel and the master panel controls the network. Through panel network configuration it is possible to protect large buildings with maximum 512 points per panel according to EN54-2, total 2048 per network.



Address Fire BSR-1004
System monitoring



Note:

Fire detection panel can be connected to a PC through an Ethernet expansion board GR-8530 using regular web browser interface.

Through this interface the user:

- Can Enable or disable systems and functions
- Reset Alarms
- Create Evacuation Alarm
- Adjust date/time and delays

The technician:

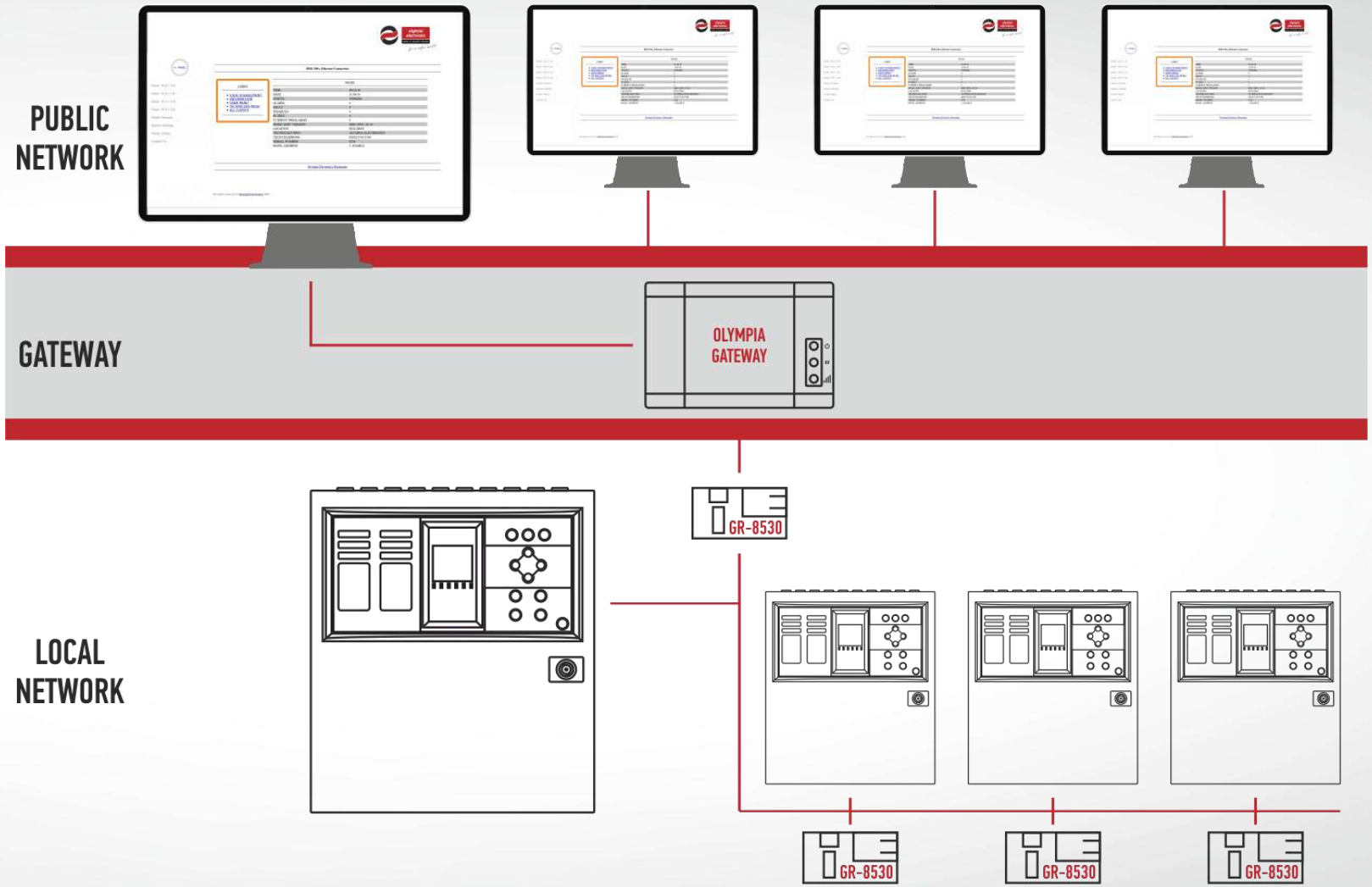
- Can adjust information about the panel
- Adjust properties and reset the annual check warning
- Adjust IP and panel network address as well as the panel network configuration

Address Fire BSR-1004

Typical connection of a BSR-100X panel with OLYMPIA GATEWAY

- You can view the status of 4 panels from the local network to the global network

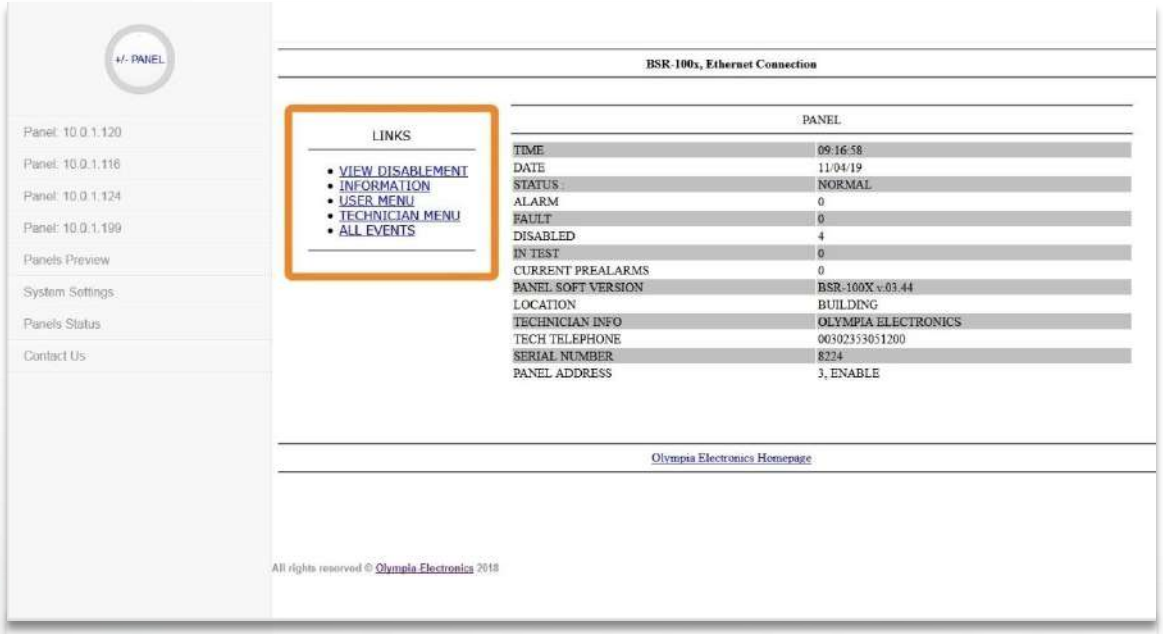
- You can enter the user or tech menu and use the same functions as local Ethernet connection



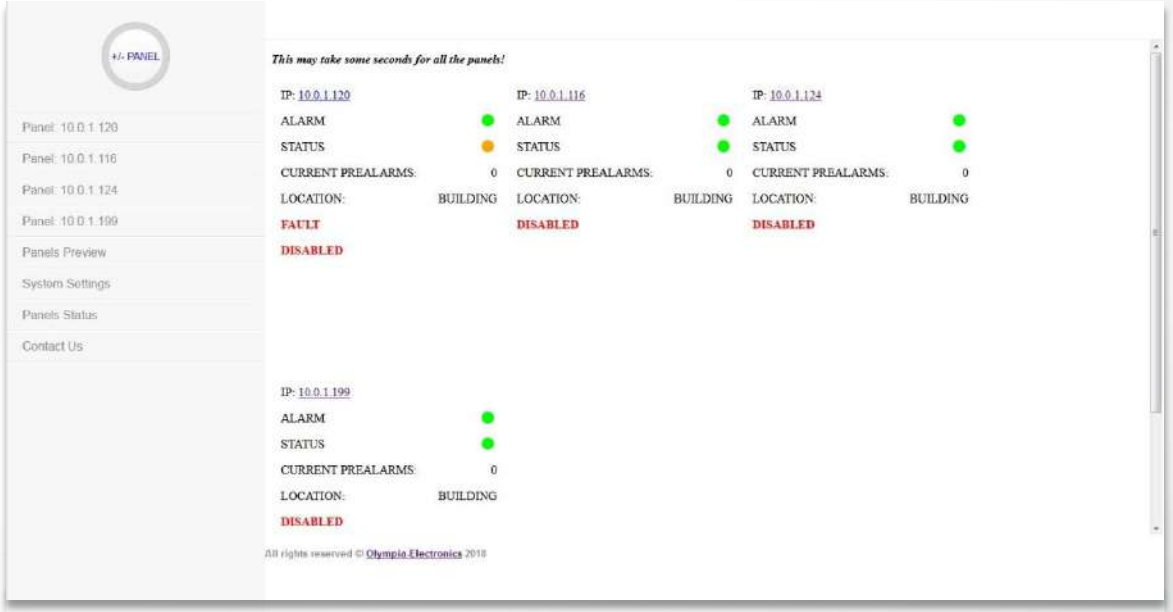
NEW Addressable Fire Detection System

Address Fire BSR-100x
CONFIGURATION SCREENSHOTS

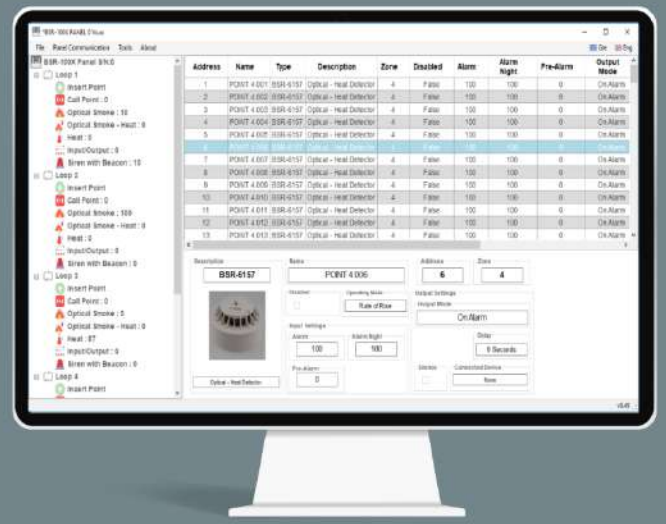
Panel Information



Panels Status



The programming can also be done using a PC

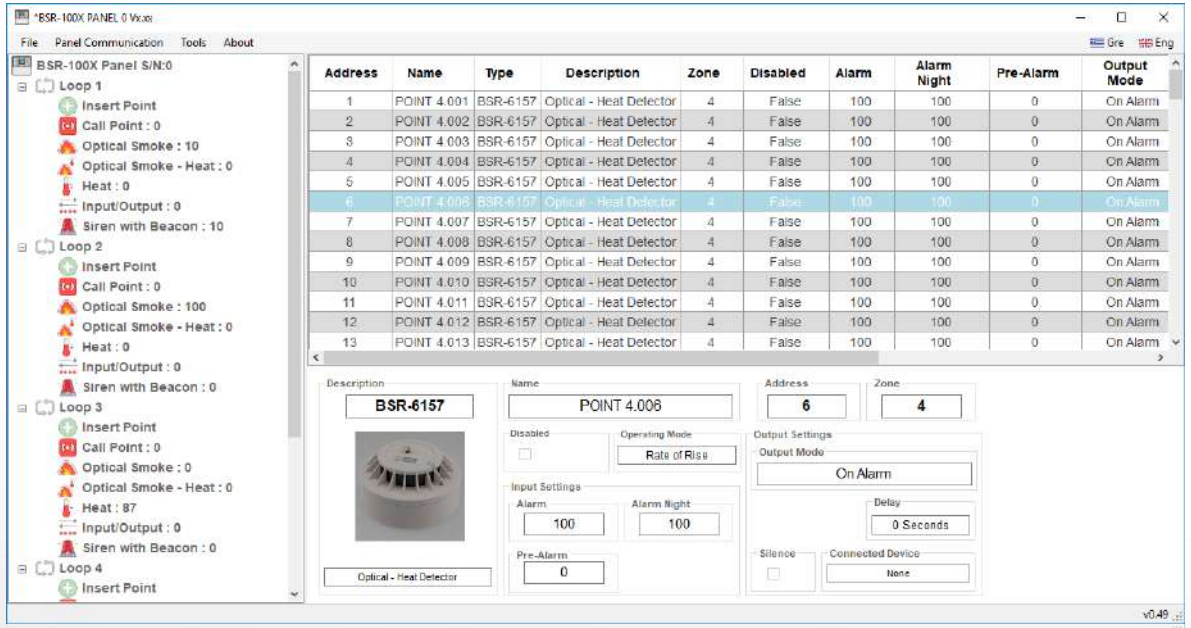


System programming

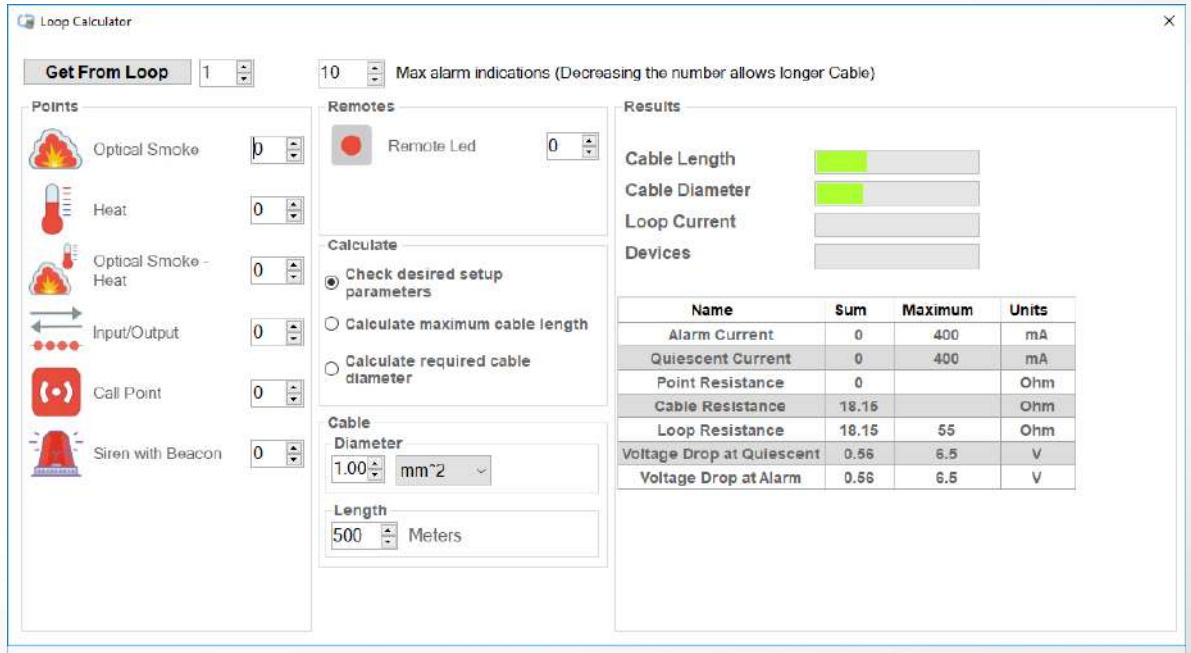
- Fire detection panel can be programmed through the onboard LCD and keyboard with a PC software through the on board USB.
- Free of charge PC software for planning an installation and programming the panel.
- Easy to use fully featured programming of loop calculator tool for calculating points in the loop.
- Battery calculator tool for calculating consumption and battery needs.
- Event log export.

Address Fire BSR-100x
System programming

Programming of points



Loop Calculator



Why choose an Addressable Fire Detection System?

- The recognition of the event is done in the specific address and in not the zone.
- Its price is competitive and very close to conventional fire detection systems.
- The 'intelligent" dust detection mechanism used on the smoke detectors permits prompt warning for maintenance.
- It offers a programming capability using a user friendly program for personal computers.

Detectors for addressable fire detection panels

Optical smoke / heat of rise

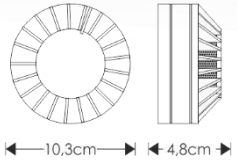
BSR – 6155 Optical smoke detector

BSR-6157 Optical smoke/heat of rise detector

BSR-6160 Heat of rise detector

Specifications

Dimensions in mm



Accessories

Base with 24V relay

Remote indicator LED

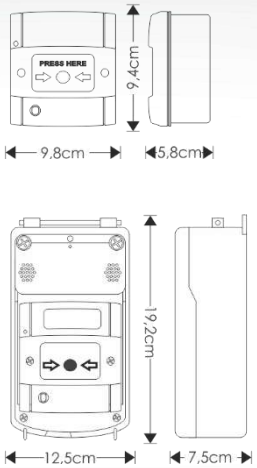
Fire detection call points for addressable fire detection panels

BSR-5136 Fire detection call point with TEST-RESET key

Waterproofing case for fire alarm call point

Specifications

Dimensions in mm

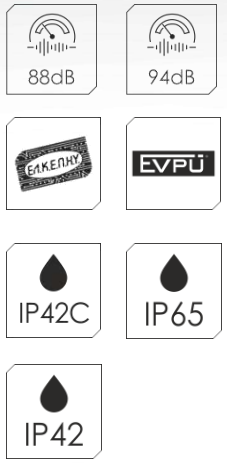


Sirens with beacon for addressable fire detection panels

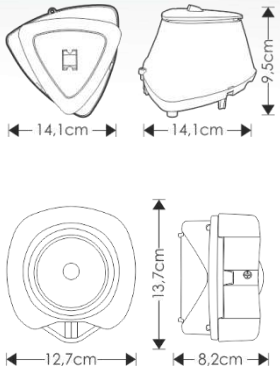
BSR-5032 Siren

BSR-5132 /WP Siren with beacon

Specifications



Dimensions in mm



Addressable twin input/output unit with integrated isolator

BSR-8120

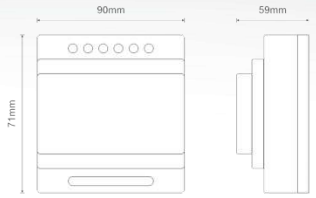
- 2 independent inputs & 2 independent outputs,
- 6 different modes
- Loop supply or external supply
- Capable to connect conventional panels through free contacts
- Capable to connect to gas sensors

Specifications

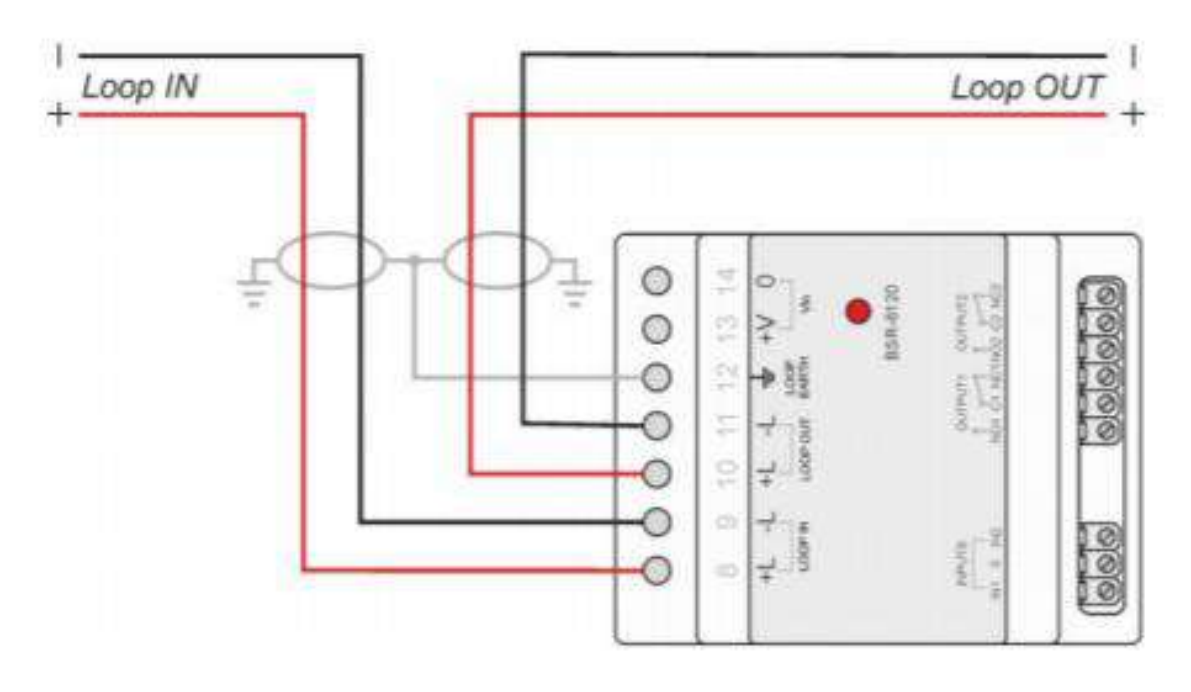
IP20

EVPU

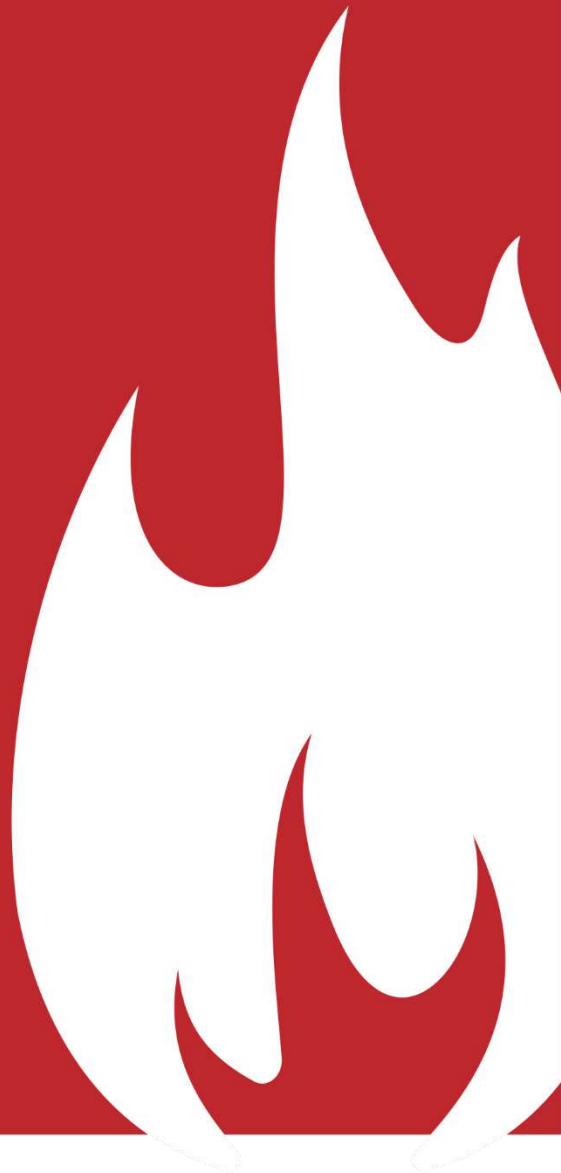
Dimensions in mm



Connection of input / output units to addressable fire detection panels



Fire Detection Peripheral Devices



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SAFETY & SECURITY SYSTEMS
for a safer world!

Autonomous optical smoke detector with batteries

2 x Lithium AA (FR6, L91)

2x Alkaline AA (LR6)

BATTERY 10 YEARS SERVICE LIFE

IP20

Optical

2x Alkaline AA (LR6)

2 x Lithium AA (FR6, L91)

85dB

EN14604 2005

Ø130 H:43mm

The BS-506 is an autonomous smoke detector with an optical sensor for installation in residential buildings, apartments and rooms. Smoke alarms are designed to provide an early warning of fire events giving enough time for people to evacuate the building/room. Always consult local regulations for smoke alarms.

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Accessories for testing Smoke & heat detectors

Carrying bag

Solo-100,101,108

Solo-423,424

Solo-200

Solo-330

Accessories set for testing smoke & heat detectors which contains:

1 x Accessory for testing smoke dispenser

1 x Accessory for testing heat dispenser

1 x Detector removal tool

1 x Telescopic access pole 4.5m (up to 6m access)

1 x Carrying bag

Accessories for testing Smoke & heat detectors

TESTIFIRE 6001 Smoke/heat Testkit

Testkit for smoke & heat detectors

1 x Testifire 1000-001

1 x Smoke capsule TS3-001

2 x Batteries Solo 770-001

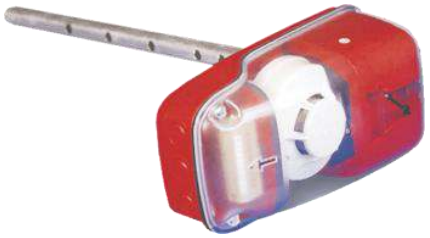
1 x Charger Solo 727-101

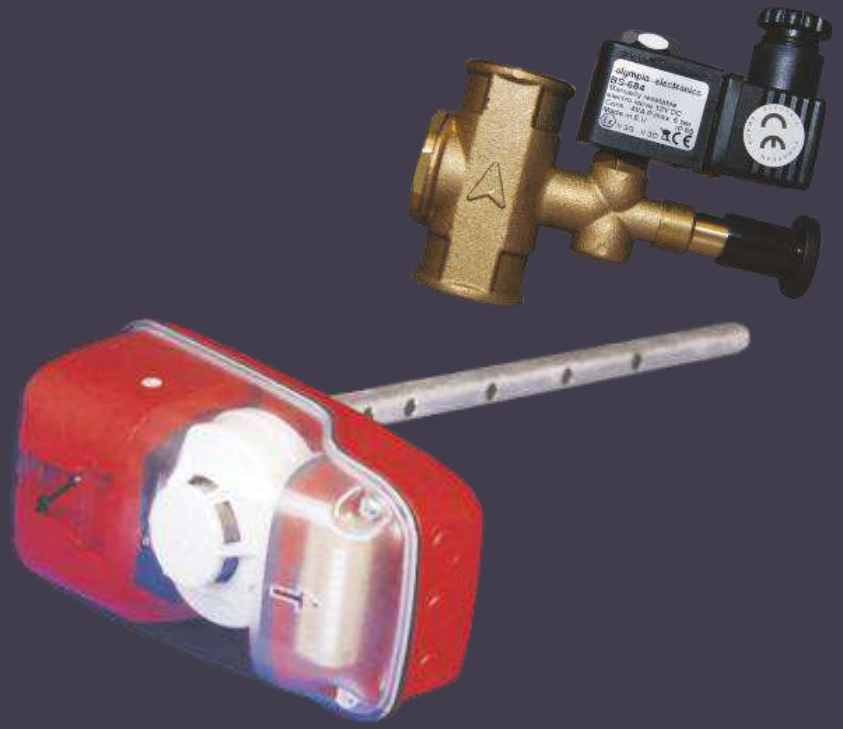
1 x Telescopic access pole 4.5m Solo 100-001
(up to 6m access)

1 x Detector removal tool Solo 200-001

1 x Carrying bag Solo 610-001

Fire detection peripheral devices





BS-510/24 Electromagnetic door latch (24V)

BS-680 Electro-valve 24VDC

BS-682 Electro-valve 230VAC

BS-684 Electro-valve 12VDC

3000/UG4DP Base for installing detectors in air-ducts

63-040-06 Pipe for detectors base of air ducts

A-752 Spray for testing smoke detectors (150ml)

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