INITIATING DEVICES

PHOTO-ELECTRIC SMOKE DETECTOR - S-A4011

SHIELD Photo-Electric Smoke Detector works on the light-scatter principle and is ideal for applications where slow-burning or smoldering fires are likely.

- Responds well to slow-burning, smoldering fires
- Well suited for bedrooms and escape routes
- Unaffected by atmospheric pressure

Technical Data

Detector Type	Photoelectric
Working Voltage	17 - 28 V DC
Modulation Voltage (V peak to peak)	5 - 9 V
Maximum Alarm Current LED on	4 mA
Surge Current	1.0 mA
Supervisory Current	340 µA Avg, 600 µA Peak
Storage Temperature Range	-22°F to 176°F
Operating Temperature Range	32°F to 100°F
Dimensions (diameter x height)	100 mm x 42 mm
Weight	105 g

HEAT DETECTOR - S-A4013

SHIELD Heat Detector is distinguishable by the low airflow resistant case and uses a single thermistor to sense the air temperature around the detector.

- Ideal for environments that are dirty or smoky under normal conditions
- Well suited for warehouses, loading docks and parking garages
- Unaffected by wind or atmospheric pressure
- Remote test feature

Technical Data

Detector Type	Heat
Working Voltage	17 - 28 V DC
Modulation Voltage (peak to peak)	5 - 9 V
Maximum Alarm Current LED on	3 mA
Surge Current	1 mA
Supervisory Current	250 µA Avg, 500 µA Peak
Heat Element Rating	135°F (57°C)
Test Method	Hair dryer
Alarm Range	55°C to 90°C
Operating Temperature Range	131°F to 194°F
Coverage	600 sq. ft.
Dimensions (diameter x height)	100 mm x 42 mm
Weight	105 g

SIGNALING
UL LISTED
ULC LISTED
FM APPROVED

INITIATING DEVICES

MULTISENSOR - S-A4014

SHIELD Multisensor contains a photo-electric smoke sensor and a thermistor (temperature sensor) whose outputs are combined to give the final analog value.

- Sensitive to a wide range of fires
- Well suited for environments such as hotel bedrooms, warehouses & loading docks
- Unaffected by wind or atmospheric pressure

Technical Data

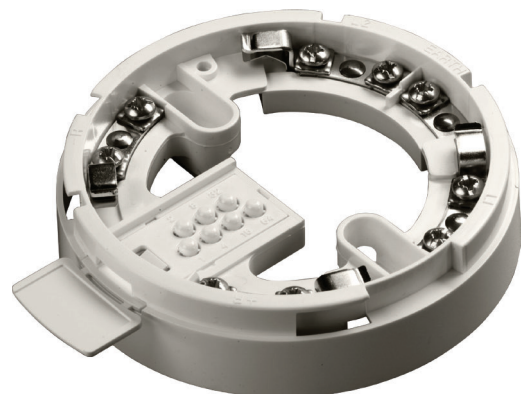|	
Detector Type	Photoelectric smoke sensor and Thermistor
Working Voltage	17 - 28 V DC
Modulation Voltage (peak to peak)	5 - 9 V
Maximum Alarm Current LED on	3 mA
Surge Current	1 mA
Supervisory Current	500 µA Avg, 750 µA Peak
Operating Temperature Range	32°F to 140°F
Coverage	900 sq. ft.
Dimensions (diameter x height)	100 mm x 50 mm
Weight	105 g

MOUNTING BASE - S-A4001/S-A4003

SHIELD Mounting Base which is a low insertion force base with stainless steel contacts for the detector terminals. XPERT Cards are supplied with all bases.

- XPERT addressing
- One way fit
- Locking feature to prevent unauthorized removal

Technical Data

S-A4001	Standard Mounting Base 4"
S-A4003	Standard Mounting Base 6"

E-Z FIT BASE - S-A4006

The E-Z Fit Base is a low profile 6" mounting base for SHIELD detectors.

- High degree of protection against unauthorized removal

NETWORK SYSTEM SCHEMATIC WITH INITIATING DEVICES

A mixture of up to 32 devices (including Omega-R & Omega-M boards) can be fitted to each panel on the RS485 serial interface. The maximum number of Omega-R panels on a single RS485 serial interface is 15.

Each loop is capable of hosting up to 126 devices.

Each loop is capable of hosting up to 126 devices.

Control panels are supplied with 2,1 or 4 detection loops .

Up to 64 Panels can be added to the network.

Loop 1   **Loop 2**   (if fitted) **Loop 3 Loop 4**

Loop 1 Loop 2 (if fitted)

Omega-M

I/O Board

24V DC

Omega-R Annunciator

24V DC

Omega-R Annunciator

24V DC

RS485 I/O BUS

Omega-X Control Panel

Network Card Required

RS232

Omega Control Panel

Network Card Required

RS232
RS485

High Integrity Configurable Network

Omega Control Panel

Network Card Required

RS232

Omega-X Control Panel

Network Card Required

RS232
RS485

Ether/DACT

Virtual Panel®