

S2351E Smoke Detector

CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR

Description:

The S2351E photoelectric smoke detector forms part of the Series 300 range of conventional detectors. This range of detectors has been produced using the latest in manufacturing and design techniques, pushing out the boundaries of existing conventional detector technology. With it's multitude of innovative features, the Series 300 is a detector which 'acts conventionally, thinks intelligently'.



The S2351E photoelectric detector incorporates an Application Specific

Integrated Circuit (ASIC). Combined with the latest state of the art optical chamber the detector provides efficient and accurate detection of fires with a high level of resilience to non-fire environmental influences.

The S2351E and other detectors in the Series 300 range are backward compatible with the Series 100 detector bases, thus providing the capability to upgrade, extend and maintain existing Series 100 installations.

The S2351E detector incorporates a bi-colour LED indicator. The integral LED changes colour according to the detector's status - Green = Normal, Red = Alarm. This benefits the user by providing clear, instant visual indication of the detector's condition. The Green LED can be programmed for blink/no blink operation

'Drift compensation' algorithms are one of the key features of the 2351E detector. These algorithms ensure a consistent alarm sensitivity threshold for periods between service intervals. This provides the user with both a reduction in the frequency of nuisance alarms and maintenance savings by extending the period before cleaning of the detector chamber is required.

The sensitivity of a smoke detector is critical to its overall performance, this is reflected in both its ability to detect real fire conditions and its resilience to non-fire stimuli. The S2351E's performance can be optimised for it's application by selecting from one of three preset alarm thresholds - Low, Medium and High, offering greater stability and optimum performance within the environment in which it has been installed. The selection is easily achieved through the use of a remote hand-held tool.

The remote hand-held programming unit can also be used in conjunction with the Series 300 range of detectors to gain access to other advanced features. The features available include: read/write last maintenance date, read chamber contamination level, read value of thermal element and perform an alarm test.

Each unit can be given a unique address. When used in conjunction with the S300ZDU this address will be displayed whenever the detector is in alarm.

All the features via the hand-held programming unit are achieved effectively and effortlessly without the need to remove the detector or having to gain direct physical access (other than by the use of 'No Climb Products' or similar servicing tool), saving valuable commissioning/maintenance time.

They provide the end user with the confidence to know that his system is being regularly serviced and that it is operating at it's optimum level, with minimum disruption to his own business activities.

In addition to the comprehensive programming tool, a simple laser based alarm test unit is also available. The coded signal transmitted by this device can instruct the detector to generate a full alarm condition at a range of up to 5 metres from the detector, and is an ideal tool for initial commissioning and routine system testing.

A variety of detector bases can be used with the S2351E detector, providing application flexibility and compatibility with a wide range of Fire Alarm Control Panels. All bases are fitted with a shorting spring to permit circuit testing prior to fitting the detector and have a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool.

All System Sensor products are covered by our extended 3 year warranty



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Preatures:

- Low profile design
- Low current draw
- Backward compatible with Series 100 detector range of bases
- Wide operating voltage 8 to 30V
- Bi-colour LED detector status indicator
- Automatic drift compensation
- Programmable sensitivity
- Addressable feature
- · Advanced maintenance features via remote hand-held test unit
- Range of detector bases available
- Tested and approved to EN54 part 7 (2000)
- Extended warranty

Specifications:

Electrical Operating Voltage Range Maximum Standby Current Maximum Permissible Alarm Current)	: : :	120μΑ
Environmental Operating Temperature Range Humidity	:	-20°C to +60°C -30°C to +70°C for short duration 5 to 95% Relative Humidity (non-condensing)
Mechanical Height Diameter Weight Max Wire Gauge for Terminals Colour Material	: : : : : : : : : : : : : : : : : : : :	32.5mm 102mm 75g 1.5mm ² Pantone, warm grey 1C Bayblend FR110
Product Range Bases (See Note)	:	B401 Standard Base B401SD Standard base with schotty diode B401R Resistor base with 470 ohm resistor B401RSD Standard base with 470 ohm resistor and schotty diode B401RM Standard recess base with 470 ohm resistor B401DG Deep base B401DGR Deep base with 470 ohm resistor B401DGSD Deep base with schotty diode B412NLM2 12V non-latching relay base B424RLM2 24V latching relay base
Accessories	:	S300RPTU Remote Programming and Test Unit S300RTU Remote Test Unit S300SAT Remote Programming Interface Unit S300ZDU Zonal Display Unit
Other Detectors	:	S2351TEM, S4351E, S5351E

Note: Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels

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