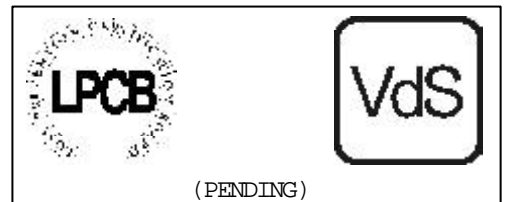


MODEL 2351E CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR

FEATURES

- 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



DESCRIPTION

The 2351E 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 its multitude of innovative features, the Series 300 is a detector which 'acts conventionally, thinks intelligently'.

The 2351E 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 2351E 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 2351E 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 2351E's performance can be optimised for its 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.

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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 its 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 2351E 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.

SPECIFICATIONS

Electrical

Operating Voltage Range	8 to 30 VDC (Nominal 12/24VDC)
Maximum Standby Current	120 μ A
Maximum Permissible Alarm Current (LED On)	50mA at 24Vdc (Limited by Panel)

Environmental

Operating Temperature Range	-20°C to +60°C -30°C to +70°C for short duration
Humidity	5 to 95% Relative Humidity (non-condensing)

Mechanical

Height	32.5mm
Diameter	102mm
Weight	75g
Max Wire Gauge for Terminals	1.5mm ²
Colour	Pantone, warm grey 1C
Material	Bayblend FR110

Product Range

Bases (See Note)	B401	Standard Base
	B401SD	Standard base with schottky diode
	B401R	Resistor base with 470 ohm resistor
	B401RSD	Standard base with 470 ohm resistor and schottky diode
	B401RM	Standard recess base with 470 ohm resistor
	B401DG	Deep base
	B401DGR	Deep base with 470 ohm resistor
	B401DGSD	Deep base with schottky diode
	B412NLM2	12V non-latching relay base
	B412RLM2	12V 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	2351TEM, 4351E, 5351E
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Note: Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels.

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