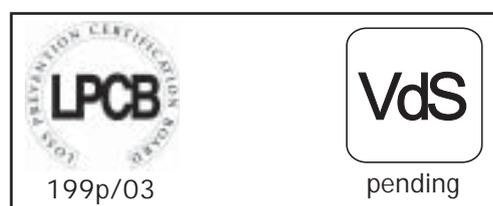


MODEL 2351TEM CONVENTIONAL MULTI-CRITERIA PHOTOELECTRIC SMOKE/THERMAL DETECTOR

series 300

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); EN54 part 5 (2000) Class A1R; CEA4021
- Extended warranty



DESCRIPTION

The 2351TEM photoelectric smoke/thermal 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 2351TEM 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. By using a combination of inputs, the incidence of nuisance alarms is reduced while at the same time, the response time to an actual fire is also improved.

The 2351TEM 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 2351TEM 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 2351TEM 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 2351TEM'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 that will be displayed on the S300ZDU 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 2351TEM 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 30VDC (Nominal 12/24VDC)
Maximum Standby Current (Typical)	250µA
Maximum Permissible Alarm Current (LED On)	50mA at 24VDC (Limited by panel)

Environmental

Operating Temperature Range (see note 1)	-30°C to +80°C
Humidity	5 to 95% Relative Humidity (non-condensing)

Mechanical

Height	43mm
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 Shottky diode B401RM Standard recess base with 470 ohm resistor B401DG Deep base B401DGR Deep base with 470 ohm resistor B401DGSD Deep base with Shottky diode B312NL 12V non-latching relay base B312RL 12V latching relay base B324RL 24V latching relay base
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Accessories

S300RPTU Remote Programming and Test Unit
S300RTU Remote Test Unit
S300SAT Remote Programming Interface Unit
S300ZDU Zonal Display Unit

Other Detectors

2351E, 4351E, 5351E

Notes: (1) To avoid unwanted alarm conditions being triggered by class A1S and A1R detectors maximum ambient operating temperature should not exceed 45°C.

(2) Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels.