

## CONVENTIONAL Rate Of Rise & Fixed Temperature Thermal Detector Model 5351E

SERIES 300

### FEATURES

- 🔥 Low profile design
- 🔥 Low current draw
- 🔥 Backward compatible with Series 100 detector range of bases
- 🔥 Wide operating voltage 8 to 30VDC
- 🔥 Bi-colour LED detector status indicator
- 🔥 Range of detector bases available
- 🔥 Tested and approved to EN54 – 5:2000 Class A1R (Amendment 1)
- 🔥 Extended warranty



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### DESCRIPTION

The 5351E 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 5351E thermal detector incorporates an Application Specific Integrated Circuit (ASIC). Combined with the latest in thermal element technology the detector provides efficient and accurate detection of fires, especially in environments such as bars or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

The 5351E 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 5351E 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.

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 value of thermal element and perform alarm test.

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.

### ARCHITECT/ENGINEER SPECIFICATIONS

#### 5351E RATE OF RISE & FIXED TEMPERATURE THERMAL DETECTOR

A simple laser based alarm test unit is 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 5351E 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.

## ELECTRICAL SPECIFICATIONS

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)
Typical Standby Current @ 25°C	60µA @ 24VDC (LED no blink)
Maximum Alarm Current (LED On)	80mA @ 24VDC (Limited by panel)

## ENVIRONMENTAL SPECIFICATIONS

Application Temperature Range	-30µC to +70µC
Humidity	5 to 95% Relative Humidity (non condensing)

## MECHANICAL INFORMATION

Height	48mm (plus 9mm for B401 base)
Diameter	102mm
Weight	105g (plus 60g for B401 base)
Max Wire Gauge for Terminals	0.75mm <sup>2</sup> to 2.5mm <sup>2</sup>
Colour	Pantone Warm Grey 1C
Material	Bayblend FR110

## PRODUCT RANGE

Compatible Bases (see notes)	
B401 Standard Base	B324RL 24V latching relay base
B401R Resistor base with 470 ohm resistor	B401DG Deep base
B401RSD Standard base with 470 ohm resistor and Shottky diode	B401DGSD Deep base with Shottky diode
B401RM Standard recess base with 470 ohm resistor	B312RL 12V latching relay base
B401DGR Deep base with 470 ohm resistor	B401SD Standard base with schotty diode
B312NL 12V non-latching relay base	
Accessories	
B401 Standard Base	
Other Devices in range	
2351EC, 2351TEM, 4351E	

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