# *CONVENTIONAL -Rate of Rise & Fixed Temperature Thermal Detector*
# Model 5351/E

## *Overview*

**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 5351/E 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.

The 5351/E 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 5351/E 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 5351/E 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.

## *Architect/Engineer Specifications*

5351/E Rate of Rise & Fixed Temperature Thermal Detector.

A variety of detector bases can be used with the 5351/E 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*

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

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## Environmental Specifications

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

## Mechanical Information

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

## Product Range

| | |
|---|---|
| Compatible Bases (see notes) | B401 Standard Base |
| | B401SD Standard base with schotty 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 |
| Other Devices in range | 2351/EC, 4351/E, 2351/TEM |

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

**System Sensor India (Technical Services)**
System Sensor and Devices Honeywell Building Technology
Sector 36, Pace City II Gurgaon, India - 122004.
Toll Free number: 1800-103-0339
email ID: systemsensorindiasupport@honeywell.com