

CONVENTIONAL - Photoelectric Smoke Detector Model 2351EC

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
- Automatic drift compensation
- Range of detector bases available
- Tested and approved to EN54 – 7:2000 (Amendment 1)



199m/03

0832-CPD-0059

Description

The 2351EC 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.

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 2351EC detector is backward compatible with the Series 100 detector bases, thus providing the capability to upgrade, extend and maintain existing Series 100 installations.

The 2351EC 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.

'Drift compensation' algorithms are one of the key features of the 2351EC 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.

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 | 50µA @ 24VDC (LED no blink) |
| Maximum Alarm Current (LED On) | 80mA @ 24VDC (Limited by panel) |

Environmental Specifications

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

Mechanical Information

| | |
|------------------------------|---|
| Height | 38mm (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 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 |
| Other Devices in range | B324RL 24V latching relay base | |
| | 2351TEM, 4351E, 5351E, 5351TE | |

Notes

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

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Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.

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