

## CONVENTIONAL Photoelectric Smoke Detector Model 2351EC

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
- 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 nonfire 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	-300C to +700C
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 <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	B401SD Standard base with schotty diode
B401RSD Standard base with 470 ohm resistor and Shottky diode	B401DG Deep base
B401RM Standard recess base with 470 ohm resistor	B401DGSD Deep base with Shottky diode
B401DGR Deep base with 470 ohm resistor	B312RL 12V latching relay base
B312NL 12V non-latching relay base	
Other Devices in range	
2351TEM, 4351E, 5351E, 535ITE	

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