ECO1002

Multi Criteria Photoelectric Smoke/ Thermal Detector Model ECO 1000

The ECO1002 photoelectric smoke detector belongs to System Sensor's ECO1000 range of detectors. ECO1000 is a range of conventional detectors, which have been produced using the latest in manufacturing technology and supplied with an array of advanced features, making them 'better by design'.

The ECO1002 photoelectric smoke detector uses a state of the art optical chamber combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. A combination of the unique chamber design and other technically advanced features will significantly extend the service intervals before cleaning of the detector becomes necessary.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of ECO1000 detectors for alarm test purposes. The unit transmits a coded message, preventing spurious alarms being generated by other laser-based devices. With a range of several metres, the hand held test unit provides a fast and simple way of remotely alarm testing the range of ECO1000 detectors and removes the need for any direct physical access to the detector by the user.

The ECO1002 detector has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

A variety of detector bases can be used with the ECO1002 detector, providing application flexibility and compatibility with a wide range of Fire and Intruder 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.

LPCB
199p/01

VdS
G201067

CE
0832-CPD-0065

Features:

- Low profile design
- Low current draw
- Automatic drift compensation
- Operates on 12 and 24VDC Systems

- Remote alarm test feature
- Easy Maintenance
- Range of detector bases available
- Remote LED Option

- Approved to EN54 - 7:2000 (Amendment 1)
- EN54 - 5:2000 (Amendment 1) Class A1R; CEA 4021
- Extended warranty

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Architect/Engineer Specifications

- **ECO1002 Photoelectric Smoke/Thermal Detector**

← 50mm →

← 102mm →

Electrical Specifications

- **Operating Voltage Range**   8 to 30VDC (Nominal 12/24VDC)
- **Maximum Standby Current @25℃**   240µA @ 24VDC
- **Maximum Permissible Alarm Current**   80mA (current limited by control panel)

Mechanical Information

- **Height**   40.5mm (plus 9.5mm for standard base)
- **Diameter**   102mm
- **Weight**   78g (plus 45g for standard base)
- **Wire Gauge for Terminals**   0.4mm2 to 2.0mm2
- **Colour**   Approximates to RAL9016
- **Material**   ABS

Environmental Specifications

- **Application Temperature Range (see note)**   -30℃ to +70℃
- **Humidity**   5% to 95% Relative Humidity (non-condening)

Product Range

Bases

ECO1000B Standard Base

ECO1000BREL12L Relay base 12V Latching

ECO1000BREL12NL Relay base 12V Non-latching

Accessories

ECO1000RTU Remote Test Unit

Other Detectors

ECO1003 Photoelectric Detector

ECO1005 Rate of Rise & 58℃ Fixed Temperature

ECO1005T 58℃ Fixed Temperature Thermal Detector

Notes

1. To avoid unwanted alarm conditions being triggered by class A1S and A1R detectors maximum ambient operating temperature should not exceed 45℃
2. Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels.

All technical data is correct at time of publication and is subject to change without notice. All trademarks acknowledged. Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.

Honeywell