ECO 1000

Multi Criteria Photoelectric Smoke / Thermal Detector Model EC01002



Product Overview

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





Description

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 beforecleaning of the detector becomes necessary.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of EC01000 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 EC01000 detectors and removes the need for any direct physical access to the detector by the user.

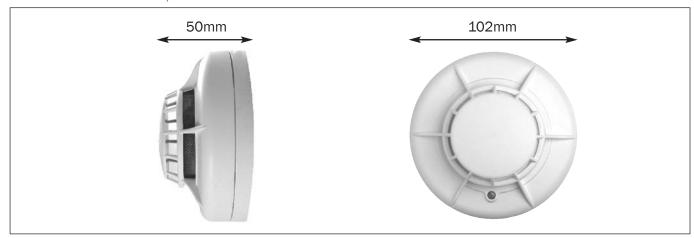
The ECO1002 detector has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

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

Architect/Engineer Specifications

EC01002 Photoelectric Smoke/Thermal Detector



Electrical Specifications

Operating Voltage Range Maximum Standby Current @25PC Maximum Permissible Alarm Current

8 to 30VDC (Nominal 12/24VDC) 60µA @ 24VDC 80mA (current limited by control panel)

Environmental Specifications

Application Temperature Range (see note) 5% to 95% Relative Humidity (non-condening)

Mechanical Information

Height 40.5mm (plus 9.5mm for standard base)

Wire Gauge for Terminals

Colour

Approximates to RAL9016

Weight

78g (plus 45g for standard base)

Material

Approximates to RAL9016

ABS

Product Range

Bases

EC01000BSD Standard base with Shottky diode
EC01000R Resistor base 470 Ohm
EC01000BRSD Resistor base 470 Ohm with Shottky diode
EC01000DB Deep base
EC01000BRD Deep base with Shottky diode
EC0100DBR Deep resistor base 470 Ohm
EC0100DBRSD Deep resistor base 470 Ohm with Schottky diode
EC01000BREL12L Relay base 12V Latching
EC01000BREL12NL Relay base 12V Non -latching
EC01000BREL24NL Relay base 24V Latching

Accessories

ECO1000RTU Remote Test Unit

Other Detectors

ECO1003 Photoelectric Detector ECO1004T 78PC Fixed Temperature Thermal Detector ECO1005 Rate of Rise & 58PC Fixed Temperature ECO1005T 58PC Fixed Temperature Thermal Detector

Notes

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

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