

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)
- · Extended warranty









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0832-CPD-0064

Description

The ECO1003 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 ECO1003 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 ECO1003 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 ECO1003 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.

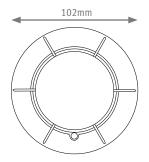


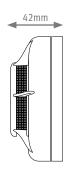




Architect/Engineer Specifications

ECO1003 Photoelectric Smoke Detector





Electrical Specifications

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)
Maximum Standby Current @25°C	60μA @ 24VDC
Maximum Permissible Alarm Current	80mA (current limited by control panel)

Environmental Specifications

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

Mechanical Information

Height	32.5mm (plus 9.5mm for standard base)
Diameter	102mm
Weight	75g (plus 45g for standard base)
Wire Gauge for Terminals	0.4mm² to 2.0mm²
Colour	Approximates to RAL9016
Material	ABS

Product Range

Bases		
ECO1000B Standard Base	ECO1000BSD Standard base with Shottky diode	
ECO1000R Resistor base 470 Oohm	ECO1000BRSD Resistor base 470 Ohm with Shottky diode	
ECO1000DB Deep base	ECO1000DBSD Deep base with Shottky diode	
ECO100DBR Deep resistor base 470 Ohm	ECO100DBRSD Deep resistor base 470 Ohm with Schottky diode	
ECO1000BREL12L Relay base 12V Latching	ECO1000BREL12NL Relay base 12V Non -latching	
ECO1000BREL24NL Relay base 24V Latching		
Accessories		
ECO1000RTU Remote Test Unit		
Other Detectors		
ECO1002 Photoelectric/Thermal Detector	ECO1004T 78°C Fixed Temperature Thermal Detector	
ECO1005 Rate of Rise & 58°C Fixed Temperature	ECO1005T 58°C Fixed Temperature Thermal Detector	

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.