

ECO 1000

CONVENTIONAL - Multi Criteria Photoelectric Smoke / Thermal Detector Model EC01002

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

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Description

The EC01002 multi-criteria detector belongs to System Sensor's EC01000 range of detectors. EC01000 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 EC01002 multi-criteria detector uses a state of the art optical chamber and a thermal element combined with a microprocessor, running sophisticated algorithms to provide quick and accurate detection of fires. The combination of photoelectric and thermal characteristics provides a faster response to 'real fire' situations, while at the same time reducing the risk of unwanted environmentally generated alarms.

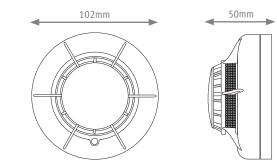
A laser-based hand held Remote Test Unit can be used in conjunction with the range of ECO1000 detectors for alarm test purposes. The unit transmits a coded message, preventing spurious alarms being generated by other laser-based devices. With a range of several metres, the hand held test unit provides an effortless 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 also 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

ECO1002 Photoelectric Smoke/Thermal Detector



Electrical Specifications

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)	
Maximum Standby Current @25°C	75µA @ 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	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	
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	EC01000DBSD 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		
ECO1003 Photoelectric 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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