

# MODEL ECO1002 CONVENTIONAL MULTI-CRITERIA PHOTOELECTRIC SMOKE / THERMAL DETECTOR

## FEATURES

- Low profile design
- Low current draw
- Operates on 12 and 24VDC Systems
- Remote alarm test feature
- Easy Maintenance
- Range of detector bases available
- Remote LED Option
- Tested and approved EN54-7:2000; EN54-5:2000 Class A1R; CEA 4021
- Extended warranty



## DESCRIPTION

The ECO1002 multi-criteria 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 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.

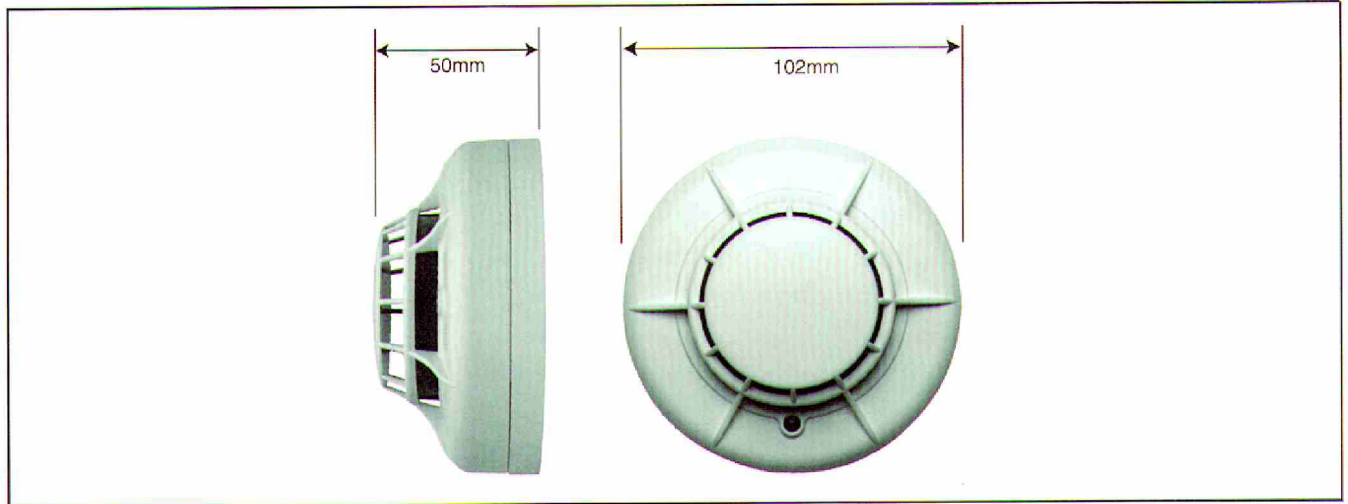
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## SPECIFICATIONS

### Electrical

Operating Voltage Range	8 to 30 VDC (Nominal 12/24VDC)
Typical Standby Current	240 $\mu$ A
Maximum Permissible Alarm Current	50mA (current limited by control panel)

### Environmental

Operating Temperature Range (see note 1)	-20 °C to +60 °C -30 °C to + 70 °C for short duration
Storage Temperature Range	-30 °C to +70 °C
Humidity	5 to 95% Relative Humidity (non-condensing)

### Mechanical

Height (without base)	40.5mm
Diameter	102mm
Weight	75g
Max Wire Gauge for Terminals	1.5mm <sup>2</sup>
Colour	Approximates to RAL9016
Material	ABS

### Product Range

Bases (see note 2)	ECO1000B Standard Base ECO1000BSD Standard base with schotty diode ECO1000R Resistor base 470 ohm ECO1000BRSD Resistor base 470 ohm with schotty diode
Accessories	ECO1000RTU Remote Test Unit
Other Detectors	ECO1003 Photoelectric Detector ECO1005 Rate of Rise & Fixed Temperature Thermal Detector ECO1005T Fixed Temperature Thermal

Notes: (1) To avoid unwanted alarm conditions being triggered by class A1S and A1R detectors maximum ambient operating temperature should not exceed 45 °C.

(2) Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels.

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