MODEL ECO1003 CONVENTIONAL PHOTOELECTRIC SMOKE 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
- Certified to EN54 part 7 (2000)
- Extended warranty

ECO 1000 SYSTEM SENSOR

LPCB 199m/01

VdS G201060

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.

System SENSOR®

ECO1003 PHOTOELECTRIC SMOKE DETECTOR
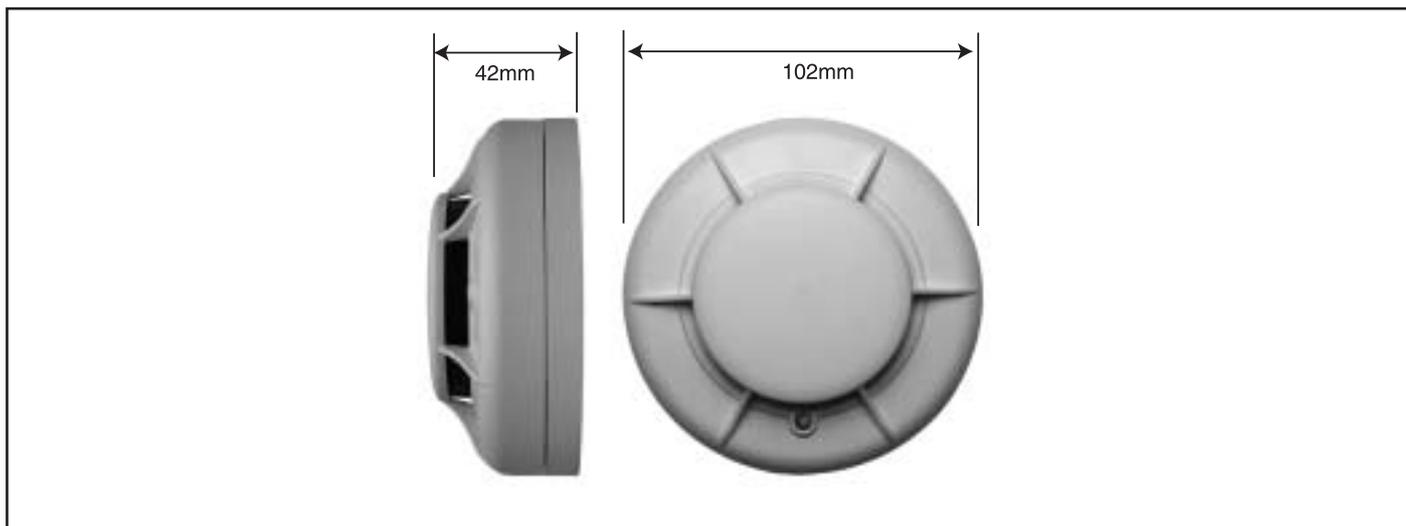
SPECIFICATIONS

Electrical

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)
Maximum Standby Current (Typical)	110µA
Maximum Permissible Alarm Current	50mA (current limited by control panel)

Environmental

Operating Temperature Range	-30°C to $+80^{\circ}$C
Humidity	5 to 95% Relative Humidity (non-condensing)

Mechanical

Height (without base)	32.5mm
Diameter	102mm
Weight	75g
Max Wire Gauge for Terminals	1.5mm²
Colour	Approximates to RAL9016
Material	ABS

Product Range

Bases (see note 2)	ECO1000B Standard Base
	ECO1000BSD Standard base with Shottky diode
	ECO1000R Resistor base 470 ohm
	ECO1000BRSD Resistor base 470 ohm with Shottky diode
	ECO1000BREL12L Relay base 12V Latching
	ECO1000BREL12NL Relay base 12V Non–latching
	ECO1000BREL24L Relay base 24V Latching
Accessories	ECO1000RTU Remote Test Unit
Other Detectors	ECO1002 Photoelectric/Thermal Detector
	ECO1005 Rate of Rise & Fixed Temperature Thermal Detector
	ECO1005T Fixed Temperature Thermal Detector

Note: Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels.

a **Honeywell** company