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
- LPCB & VDS Approved to EN54 Pt.7 & Pt.5. Also approved to CEA 4021
- Extended warranty

The ECO1002 multi-criteria detector is one of the Fire-Lite range of conventional detectors.

These detectors have been produced using the latest in manufacturing technology and supplied with an array of advanced features, making them "better by design".

ECO1002

conventional multi-criteria photoelectric smoke and heat detector

The ECO1002 multi-criteria detector uses a state of the art optical chamber and a class A1R 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 testing the range of ECO1000 detectors and removes the need for any direct physical access to the detector by the user.

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VdS (VDS Pending)

LPCB 199p



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 detectors are covered by our extended 3-year warranty.

specifications

electrical

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

environmental

Operating Temperature Range (see note 1)	–30°C to +70°C
Storage Temperature Range	–40°C to +85°C
Humidity	5 to 95% Relative Humidity (non-condensing)

mechanical

Height (without Base)	40.5mm
Diameter	102mm
Weight	75g
Max Wire Gauge for Terminals	2.0mm
Colour	Approximates to RAL9016
Material	ABS

product range

Bases

ECO1000B Standard Base
ECO1000BSD Standard Base with schotty diode
ECO1000R Resistor Base 470 ohm
ECO1000BRSD Resistor Base 470 ohm with schotty diode
ECO1000BREL12L 12VDC latching Relay Base
ECO1000BRE12NL 12VDC non-latching Base
ECO1000BRE24L 24VDC latching Base

accessories and other detectors

ECO1000RTU Remote Test Unit
ECO1003 Photoelectric Detector
ECO1005 Rate of Rise & Fixed Temperature Thermal Detector
ECO1005T Fixed Temperature Thermal

Note: (1) To avoid unwanted alarm conditions being triggered by class A1R and A2S detectors the maximum ambient operating temperature should not exceed 45°C.

Ref: 249 (1002)