# **ECO 1000**

58°C Fixed Temperature Thermal Detector Model EC01005T



### **Product Overview**

### **Features**

- Low profile design
- Low current draw
- 58°C operating temperature
- Operates at 12 and 24VDC
- Easy Maintenance
- Range of detector bases available
- · Remote LED Option
- Certified to EN54 5:2000 (Amendment 1) Class A2S
- · Remote alarm test feature
- Extended warranty





## Description

The EC01005T thermal 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 EC01005T thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. The detector incorporates a static element and is suitable where ambient conditions normally exhibit rapid changes in temperature e.g.kitchens.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of EC01000 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 EC01000 detectors and removes the need for any direct physical access to the detector by the user.

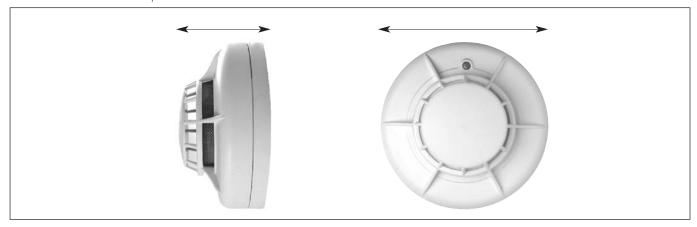
The ECO1005T detector also has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

A variety of detector bases can be used with the ECO1005T 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**

### ECO1005T 58°C Fixed Temperature Thermal Detector



## **Electrical Specifications**

Operating Voltage Range

Typical Standby Current @25 °C

Maximum Permissible Alarm Current

8 to 30VDC (Nominal 12/24VDC)

55µA @ 24VDC

80mA (current limited by control panel)

## **Environmental Specifications**

Application Temperature Range (see note 1) 5% to 95% Relative Humidity (non-condensing)

### **Mechanical Information**

Height
40.5mm (plus 9.5mm for standard base,
21mm for deep base)

Diameter

102mm
70g (plus 45g for standard base)

Wire Gauge for Terminals

Colour

Material

0.4mm² to 2.0mm²
Approximates to RAL9016

ABS

## **Product Range**

# Bases (see note 2)

EC01000BS Standard Base

EC01000BSD Standard base with Shottky diode

EC01000DR Resistor base 470 0hm

EC01000DB Deep base

EC01000DBSD Deep base with Shottky diode

EC0100DBRD Deep base with Shottky diode

EC0100DBRD Deep resistor base 470 0hm

EC0100DBRSD Deep resistor base 470 0hm with Schottky diode

EC01000BREL12L Relay base 12V Latching

EC01000BREL12NL Relay base 12V Non -latching

EC01000BREL12NL Relay base 12V Non -latching

### Accessories

ECO1000RTU Remote Test Unit

## Other Detectors

EC01002 Photoelectric/Thermal Detector EC01003 Photoelectric Detector EC01004T 78°C Fixed Temperature Thermal Detector EC01005 Rate of Rise & 58°C Fixed Temperature Thermal Detector

### Notes

- To avoid unwanted alarm conditions being triggered by class A2 detectors the 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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