

Overview

Features

- · Low profile design
- · Low current draw
- 58°C operating temperature
- Operates at 12 and 24VDC
- · Remote alarm test feature
- Easy Maintenance
- Range of detector bases available
- Remote LED Option
- Approved to EN54 -5:2000 Class A1R
- Approved to MED 96/98/EC (Amendment 2009/26/EC)
- Extended warranty







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0832-MED-1019 0832-MED-1020

Description

The ECO1005 A thermal 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 ECO1005 A 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 both rate of rise and static elements and is suitable for all areas where the ambient conditions do not normally exhibit rapid changes in temperature.

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 ECO1005 A 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 ECO1005 A 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.

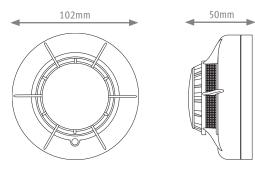






Architect/Engineer Specifications

ECO1005 Rate of Rise Thermal Detector



${\it Electrical Specifications}$

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)	
Maximum Standby Current @25°C	70μA @ 24VDC	
Maximum Permissible Alarm Current	80mA (current limited by control panel)	
Environmental Specifications		

Application Temperature Range (see note 1)	-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	70g (plus 45g for standard base)	
Wire Gauge for Terminals	0.4mm ² to 2.0mm ²	
Colour	Approximates to RAL9016	
Material	ABS	

Product Range

Bases (see note 2)		
ECO1000B Standard Base	ECO1000BSD Standard base with Shottky diode	
ECO1000BR Resistor base 470 Oohm	ECO1000BRSD Resistor base 470 Ohm with Shottky diode	
ECO1000DB Deep base	ECO1000DBSD 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	
ECO1000BREL24L Relay base 24V Latching		
Accessories		
ECO1000RTU Remote Test Unit		
Other Detectors		
ECO1002 A Photoelectric/Thermal Detector	ECO1003 A Photoelectric Detector	
ECO1004T A 78°C Fixed Temperature Thermal Detector	ECO1005T A58°C Fixed Temperature Thermal Detector	

 $\textit{Bases with other resistor values are available to suit the requirements of most \textit{Fire Alarm Control Panels}.}$

WEEE/RoHS/REACH Assessment

ECO1005 A Product Evaluation Record

General information

Manufacturing Location:	System Sensor Trieste
	Pittway tecnologica S.r.l.
	Via Caboto 19/3
	34147 Trieste, Italy
Model Numbers	EC01005 A
Product description	THERMAL DETECTOR EC01000 SERIES
Product Life Cycle	Life span expectancy of >20 years (assuming that environmental conditions have been taken into
	consideration and the detectors are regularly maintained)

Material Content

Name Of Part	Material	RoHS	Hazardous	Recycling Instruction (WEEE is out of scope
Dust cover	polystyrene	Yes	Non-hazardous	Re-used or recycled
Cover thermal/photo thermal	ABS	Yes	Non-hazardous	Recycled by regrinding into granules and blending with virgin material or landfilled
Swirl chamber cover	ABS; PC+ABS - FR	Yes	Non-hazardous	Recycled or landfilled
Swirl chamber base	ABS+Stirene- Etilene-Butilene- Stirene (SEBS); ABSFR+ Stirene-			
	Etilene-Butilene- Stirene (SEBS)	Yes	Non-hazardous	Not recyclable - landfilled
Light pipe	PMMA	Yes	Non-hazardous	Re-used or recycled
Cover	ABS	Yes	Non-hazardous	Re-used or recycled
Printed Circuit Board	CEM3 (Epoxy, Glass) SAC305 (Copper Coating, Solder)	Yes	Non-hazardous	Recycled or landfilled
Printed Circuit Board Components	Metals, Plastics, Ceramics, Tin Stainless Steel, Tin Brass	Yes	Non-hazardous	Recycled or landfilled

Energy Consumption

ECO1005 A

Avg. Standby Power: 1,32 mW (55 μA at 24 V) at 25°C one communication every 5 sec. With LED blink enabled

Max. Alarm Power (LED on): 1,92 W (80mA at 24VDC)

Environmental Permit

System Sensor Trieste Facility (address as above) approved to ISO 14001. These products do not require an environmental permit.

Packaging

Primary packaging	Single Box: Cardboard
Secondary packaging	Masterbox (5 Singlebox per M.box) and Shippingbox (28 M.box per S.box): cardboard, Tape (polypropylene)
Transportation packaging	Pallet (wooden platform), wrapping (polyethylene 04)

Additional Information

The purpose of this report is to provide information on the environmental aspects of the product, emphasis being on the material content and the energy consumption. Since there are not any emissions of harmful substances during the use of this product or in the manufacturing process of it, it is not necessary to specify these factors in this report. Also the transportation emissions are not included.

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Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.

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