CONVENTIONAL -58°C Fixed Temperature Thermal Detector
Model 5351TE

Overview

Features

- Low profile design
- Low current draw
- Backward compatible with Series 100 detector range of bases
- Wide operating voltage 8 to 30VDC
- Bi-colour LED detector status indicator
- Programmable sensitivity
- Addressable feature
- Advanced maintenance features via remote hand-held test unit
- Range of detector bases available
- Tested and approved to EN54 – 5:2000 Class A2S (Amendment 1)
- Extended warranty

CE

0832-CPD-0063

Description

The 5351TE thermal detector forms part of the Series 300 range of conventional detectors. This range of detectors has been produced using the latest in manufacturing and design techniques, pushing out the boundaries of existing conventional detector technology. With its multitude of innovative features, the Series 300 is a detector which 'acts conventionally, thinks intelligently'.

The 5351TE thermal detector incorporates an Application Specific Integrated Circuit (ASIC). Combined with the latest in thermal element technology the detector provides efficient and accurate detection of fires, especially in environments such as boiler houses or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

The 5351TE and other detectors in the Series 300 range are backward compatible with the Series 100 detector bases, thus providing the capability to upgrade, extend and maintain existing Series 100 installations.

The 5351TE detector incorporates a bi-colour LED indicator. The integral LED changes colour according to the detector's status - Green = Normal, Red = Alarm. This benefits the user by providing clear, instant visual indication of the detector's condition. The Green LED can be programmed for blink/no blink operation.

The remote hand-held programming unit can also be used in conjunction with the Series 300 range of detectors to gain access to other advanced features. The features available include: read/write last maintenance date, read value of thermal element and perform an alarm test. Each unit can be given a unique address that will be displayed on the S300ZDU whenever the detector is in alarm.

All the features via the hand-held programming unit are achieved effectively and effortlessly without the need to remove the detector or having to gain direct physical access (other than by the use of 'No Climb Products' or similar servicing tool), saving valuable commissioning/ maintenance time.

They provide the end user with the confidence to know that his system is being regularly serviced and that it is operating at its optimum level, with minimum disruption to his own business activities.

SYSTEM SENSOR®

Architect/Engineer Specifications

5351TE 58°C Temperature Thermal Detector

In addition to the comprehensive programming tool, a simple laser based alarm test unit is also available. The coded signal transmitted by this device can instruct the detector to generate a full alarm condition at a range of up to 5 metres from the detector, and is an ideal tool for initial commissioning and routine system testing.

A variety of detector bases can be used with the 5351TE 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.

Electrical Specifications

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)
Typical Standby Current @ 25°C	60µA @ 24VDC (LED no blink)
Maximum Alarm Current (LED On)	80mA @ 24VDC (Limited by panel)

Environmental Specifications

Application Temperature Range	-30°C to +70°C
Humidity	5 to 95% Relative Humidity (non condensing)

Mechanical Information

Height	48mm (plus 9mm for B401 base)
Diameter	102mm
Weight	105g (plus 60g for B401 base)
Max Wire Gauge for Terminals	0.75mm^2 to 2.5mm^2
Colour	Pantone Warm Grey 1C
Material	Bayblend FR110

Product Range

Compatible Bases (see notes)	B401 Standard Base
	B401SD Standard base with schotty diode
	B401R Resistor base with 470 ohm resistor
	B401RSD Standard base with 470 ohm resistor and Shottky diode
	B401RM Standard recess base with 470 ohm resistor
	B401DG Deep base
	B401DGR Deep base with 470 ohm resistor
	B401DGSD Deep base with Shottky diode
	B312NL 12V non-latching relay base
	B312RL 12V latching relay base
	B324RL 24V latching relay base
Accessories	S300RPTU Remote Programming and Test Unit
	S300RTU Remote Test Unit
	S300SAT Remote Programming Interface Unit
	S300ZDU Zonal Display Unit
Other Devices in range	2351E, 4351EM, 5351E

Notes

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

System Sensor Europe (Technical Services)

Charles Avenue
Burgess Hill
RH15 9TQ
United Kingdom

Tel: +44 (0)1444 238820
Fax: +44 (0)1444 248123

Email: sse.technical@systemsensor.com
www.systemsensoreurope.com

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