

CONVENTIONAL - Rate Of Rise Thermal Detector Model 2020R

Overview

Features

- Low profile design
- Low current draw
- Remote alarm test feature
- Easy Maintenance
- Range of detector bases available
- Remote LED Option
- Approved to EN54 – 5:2000 (Amendment 1) Class A1R
- Extended warranty



199n/12



0832-CPD-0183

Description

The 2020R rate of rise thermal detector belongs to System Sensor's Vision range of detectors. Vision is a range of conventional detectors, which have been produced using the latest in manufacturing technology and supplied with an array of installer-friendly advanced features, making them ideal for small, straightforward fire detection systems.

The 2020R 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 Vision 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 Vision detectors and removes the need for any direct physical access to the detector by the user.

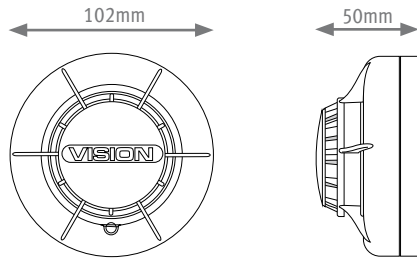
The 2020R detector also has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

A variety of detector bases can be used with the 2020R 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

2020R Rate Of Rise Thermal Detector



Electrical Specifications

| | |
|-------------------------------|-----------------------------|
| Operating Voltage Range | 14 to 28VDC (Nominal 24VDC) |
| Maximum Standby Current @25°C | 70µA @ 24VDC |
| Maximum Alarm Current | 70mA @ 28VDC |

Environmental Specifications

| | |
|-------------------------------|---|
| Application Temperature Range | -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) |
| Max Wire Gauge for Terminals | 0.4mm ² to 2.0mm ² |
| Colour | Approximates to RAL9016 |
| Material | ABS |

Product Range

| | |
|------------------------|---|
| Compatible Bases | 2020B Standard Base – adds 9.5mm to detector height |
| | 2020BSD Standard base with Schottky diode |
| | 2020DB Deep Base – adds 21mm to detector height |
| | 2020DBSD Deep Base with Schottky diode |
| Accessories | 2020LT Laser Test Tool |
| Other Devices in range | 2020PT Photoelectric Smoke / Thermal Detector |
| | 2020P Photoelectric Smoke Detector |
| | 2020F 58°C Fixed Temperature Thermal Detector |
| | 2020HF 78°C Fixed Temperature Thermal Detector |

Notes

It is essential to ensure that only known compatible components are used in a fire detection system. If in doubt, always consult the fire control panel supplier/manufacturer. If in doubt, always consult the fire control panel supplier/manufacturer.

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

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