

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



2831-CPR-F1963

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.

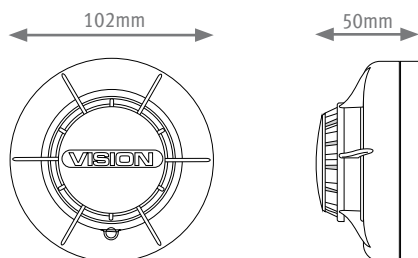
The 2020R detector also has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

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.

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

Copyright © 2005 System Sensor. All rights reserved.

All technical data is correct at time of publication and is subject to change without notice. All trademarks acknowledged.

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

DS2020R-07