

VISION

58 °C Fixed Temperature Thermal Detector
Model 2020F



Product Overview

Features

- Low profile design
- Low current draw
- Easy Maintenance
- Range of detector bases available
- Remote LED Option
- Approved to EN54 – 5:2000 (Amendment 1) Class A2S
- Remote alarm test feature
- Extended warranty



Description

The 2020F 58 °C fixed temperature 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 2020F 58 °C fixed temperature 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 hand held Laser Test Tool 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.

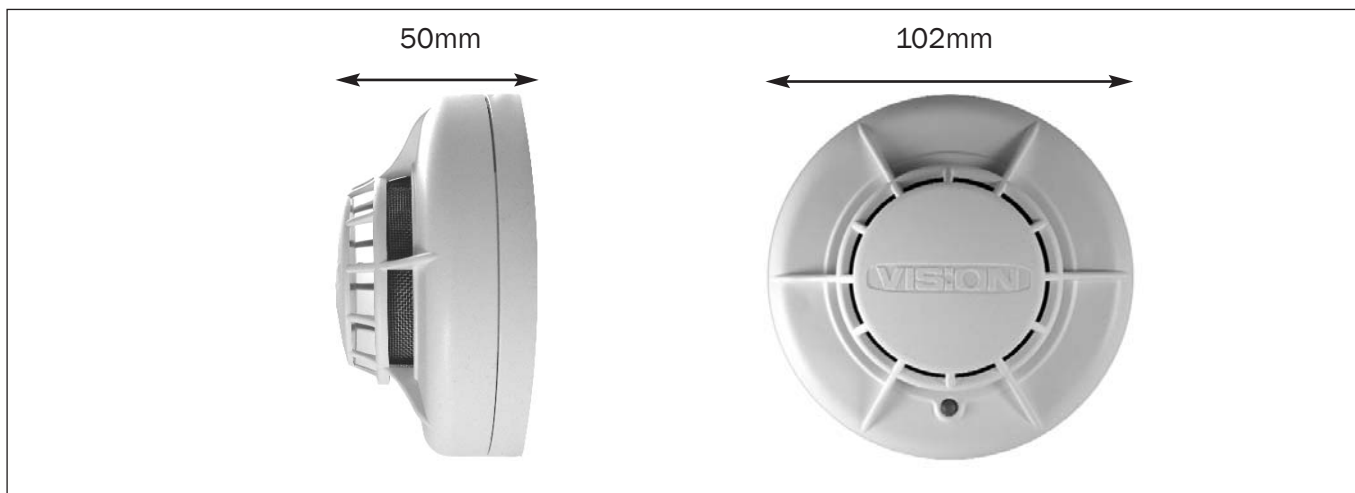
The 2020F detector also has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

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

2020F 58 °C Fixed Temperature Thermal Detector



Electrical Specifications

Operating Voltage Range

14 to 28VDC (Nominal 24VDC)

Typical Standby Current @ 25 °C

55µA @ 24VDC

Maximum Alarm Current

70mA @ 28VDC

Environmental Specifications

Operating Temperature Range

-30 °C to +70 °C

Humidity

5 to 95% Relative Humidity
(non-condensing)

Height

40.5mm
(plus 9.5mm for standard base)

Diameter

102mm

Weight

70g (plus 45g for standard base)

Wire Gauge for Terminals

0.4mm² to 2.0mm²

Colour

Approximates to RAL9016

Material

ABS

Product Range

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 Detectors

2020PT Photoelectric Smoke / Thermal Detector

2020R Rate of Rise Thermal Detector

2020P Photoelectric Smoke Detector

2020HF 78 °C Fixed Temperature Thermal Detector

Notes

1. To avoid unwanted alarm conditions being triggered by class A2S detectors the maximum ambient operating temperature should not exceed 45 °C.
2. 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.

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