

CONVENTIONAL - Photoelectric Smoke Detector Model 2020P

Overview

Features

- Low profile design
- Low current draw
- Automatic drift compensation
- Remote alarm test feature
- Easy Maintenance
- Range of detector bases available
- Remote LED Option
- Approved to EN54 – 7:2000 (Amendment 1)
- Extended warranty



199m/05

2831-CPR-F2258

Description

The 2020P photoelectric smoke 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 2020P photoelectric smoke detector uses a state of the art optical chamber combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. A combination of the unique chamber design and other technically advanced features will significantly extend the service intervals before cleaning of the detector becomes necessary.

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 a fast and simple 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.

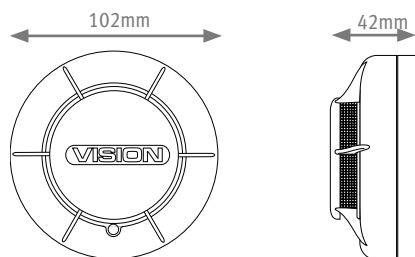
The 2020P detector has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

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

2020P Photoelectric Smoke Detector



Electrical Specifications

Operating Voltage Range	14 to 28VDC (24VDC)
Maximum Standby Current @25°C	60µA @ 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	32.5mm (plus 9.5mm for standard base)
Diameter	102mm
Weight	75g (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
	2020R Rate of Rise Thermal Detector
	2020F 58°C Fixed Temperature Thermal Detector
	2020HF 78°C Fixed Temperature Thermal Detector

Note

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

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