

CONVENTIONAL - Multi Criteria Smoke / Thermal Detector Model 2020PT

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)
- EN54 – 5:2000 (Amendment 1) Class A1R; CEA 4021
- Extended warranty



199p/04

0832-CPD-0182

Description

The 2020PT multi-criteria 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 2020PT multi-criteria detector uses a state of the art optical chamber and a thermal element combined with sophisticated algorithms to provide quick and accurate detection of fires. The combination of photoelectric and thermal characteristics provides a faster response to 'real fire' situations, while at the same time reducing the risk of unwanted environmentally generated alarms.

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.

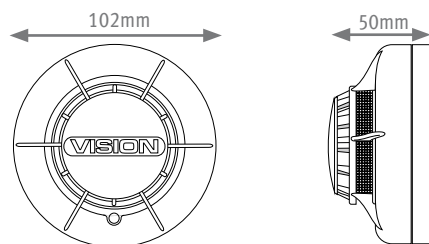
The 2020PT detector also has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

A variety of detector bases can be used with the Vision 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

2020PT Multi-Criteria Photoelectric Smoke / Thermal Detector



Electrical Specifications

Operating Voltage Range	14 to 28VDC (Nominal 24VDC)
Maximum Standby Current	75µA @ 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	78g (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
Other Devices in range	2020P Photoelectric Detector
	2020R Rate of Rise Thermal Detector
	2020F 58°C Fixed Temperature Thermal Detector
	2020HF 78°C Fixed Temperature Thermal Detector
Accessories	2020LT Laser Test Tool

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.