

Vision - Non-Addressable Detection range

Data Sheet



Vision boasts features normally only found in more sophisticated and expensive analogue detectors and offers advanced levels of detection with the cost effectiveness of a non-addressable detector.

Easy to install, commission and test, the Vision family is, quite simply, the unsung hero in any small to medium sized installation.

Silently protecting and dutifully detecting day in day out.

Features

- Compatible with most commonly available non-addressable fire control panels
- Low profile design
- Energy efficient - Low current consumption
- Remote alarm test feature
- Easy maintenance
- Remote LED operation
- LPCB & VdS approved to EN54 Pt.7 & Pt.5. Also Approved to CEA 4021

The Vision photoelectric smoke detector (2020P) has been specifically designed to be highly tolerant to dust, significantly reducing the potential for unwanted false alarms caused by settled dust affecting the detector's sensitivity. The Vision photo-thermal detector (2020PT) is a true multi-criteria unit for smoke and heat detection. It provides the same fast reaction to flaming fires as an ionisation detector without the environmental concerns of using a radioactive source.

The Vision thermal detectors are available as fixed 58°C (2020F) and 78°C (2020HF) units and as rate of rise devices (2020R).

The fixed operating point units are suitable for use in areas where rapid changes of temperature can normally be expected; the rate of rise units in areas where the temperature will normally be relatively stable.

Optional with the Vision family is a remote laser test unit, ideal for routine testing. Hand-held, one touch activated with a modulated laser beam directed to the detector's LED; the unit responds to the command and latches into alarm.

Vision Non-Addressable Multi-Criteria Optical Thermal Detector 2020PT

The 2020PT multi-criteria detector uses a state of the art optical chamber and a class A1R thermal element combined with a microprocessor, running 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 variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of Vision detectors for alarm test purposes.

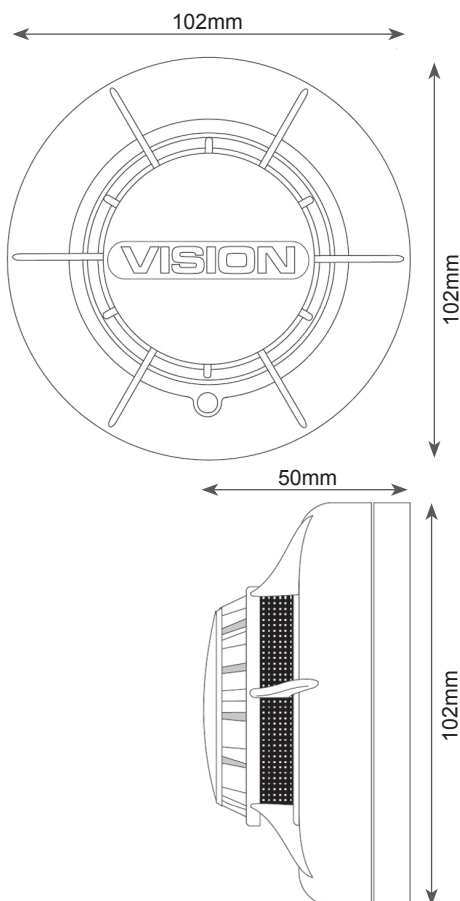


Specifications

Vision Multi-Criteria Optical Thermal Detector 2020PT

Mechanical Specification

- Dimensions
 - Height: 50 mm
 - Diameter: 102 mm
- Weight: 78g
- Max Wire Gauge for Terminals: 0.4mm² to 2.0mm²
- Colour: Approximates to RAL9016
- Material: ABS



Electrical Specification

- Operating Voltage Range: 14V - 28V dc
- Maximum Alarm Current: 70mA at 28Vdc
- Current Consumption - Standby: 60µA at 24Vdc

Environmental Specifications

- Thermal element trigger point: +58°C
- Operating temperature range: -30°C to +70°C
- Humidity: 5 to 95% relative humidity (non-condensing)

Vision Non-Addressable Optical Detector 2020P

The 2020P photoelectric smoke detector uses a state of the art optical chamber in combination with other technically advanced features, to extend the service intervals before cleaning of the detector becomes necessary.

A variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of Vision detectors for alarm test purposes.

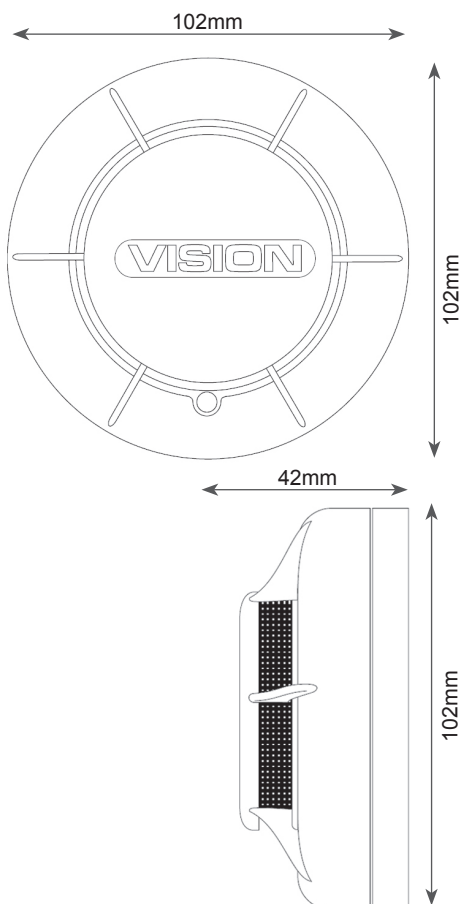


Specifications

Vision Optical Detector 2020P

Mechanical Specification

- Dimensions
 - Height: 42mm
 - Diameter: 102 mm
- Weight: 75g
- Max Wire Gauge for Terminals: 0.4mm² to 2.0mm²
- Colour: Approximates to RAL9016
- Material: ABS



Electrical Specification

- Operating Voltage Range: 14V - 28V dc
- Maximum Alarm Current: 70mA at 28Vdc
- Current Consumption - Standby: 45µA at 24Vdc

Environmental Specifications

- Operating temperature range: -30°C to +70°C
- Humidity: 5 to 95% relative humidity (non-condensing)

Vision Rate of rise thermal A1R (58°C) non-addressable detector 2020R

The 2020R is a class A1R rate of rise heat detector incorporating a fixed temperature element (58°C). These detectors are particularly suited to areas that may normally contain either products of combustion or high dust levels thus excluding smoke detectors. The 2020R is suited to areas where the ambient temperature does not normally exhibit rapid changes in temperature and where the earliest response to temperature increases are required.

A variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of Vision detectors for alarm test purposes.

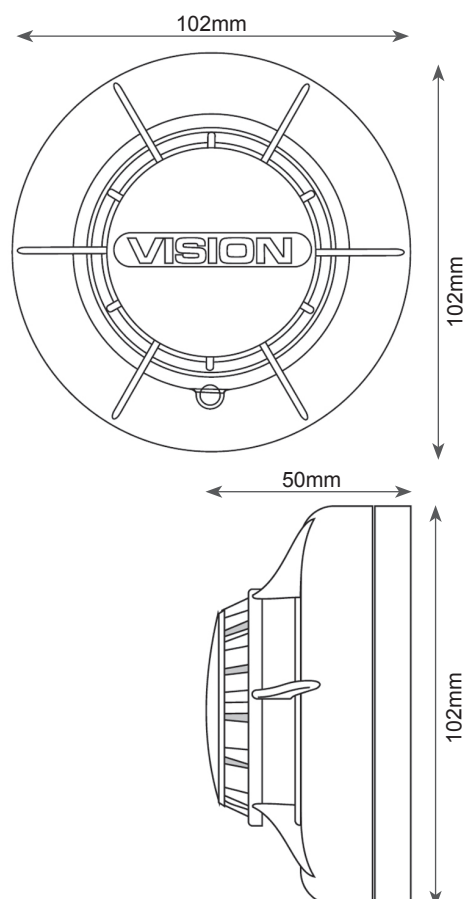


Specifications

Vision Rate of rise thermal A1R (58°C) detector 2020R

Mechanical Specification

- Dimensions
 - Height: 50mm
 - Diameter: 102mm
- Weight: 70g
- Max Wire Gauge for Terminals: 0.4mm² to 2.0mm²
- Colour: Approximates to RAL9016
- Material: ABS



Electrical Specification

- Operating Voltage Range: 14V - 28Vdc
- Maximum Alarm Current: 70mA at 28Vdc
- Current Consumption - Standby: 55µA at 24Vdc

Environmental Specifications

- Thermal element trigger point: Rapid Change or +58°C
- Operating temperature range: -30°C to +70°C
- Humidity: 5 to 95% relative humidity (non-condensing)

Vision Fixed temperature A2S (58°C) non-addressable detector 2020F

Some areas are always subject to combustion products and rapid temperature changes such as kitchen areas, however these areas may still require fire detection. The 2020F is a fixed element heat detector (58°C) particularly suited to these areas and offers class A2S response as required by EN54 Pt.5 and in areas where the ambient temperature is high, such as boiler rooms, the 2020HF provides a class BS response (78°C).

A variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of Vision detectors for alarm test purposes.

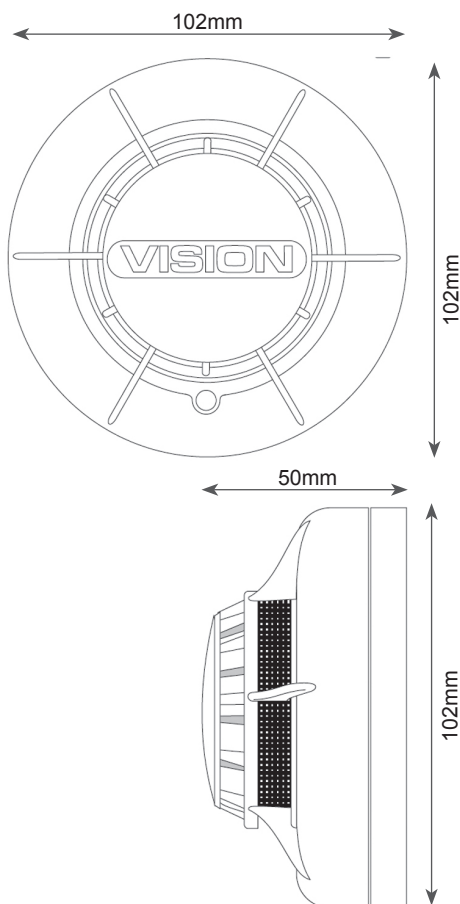


Specifications

Vision Fixed temperature A2S (58°C) detector 2020F

Mechanical Specification

- Dimensions
 - Height: 50 mm
 - Diameter: 102 mm
- Weight: 70g
- Max Wire Gauge for Terminals: 0.4mm² to 2.0mm²
- Colour: Approximates to RAL9016
- Material: ABS



Electrical Specification

- Operating Voltage Range: 14V - 28Vdc
- Maximum Alarm Current: 70mA at 28Vdc
- Current Consumption - Standby: 45µA at 24Vdc

Environmental Specifications

- Thermal element trigger point: +58°C
- Operating temperature range: -30°C to +70°C
- Humidity: 5 to 95% relative humidity (non-condensing)

Vision High fixed temperature thermal BS (78°C) non-addressable detector

Some areas are always subject to combustion products and rapid temperature changes such as kitchen areas, however these areas may still require fire detection. In areas where the ambient temperature is high, such as boiler rooms, the 2020HF provides a class BS response (78°C).

A variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of Vision detectors for alarm test purposes.

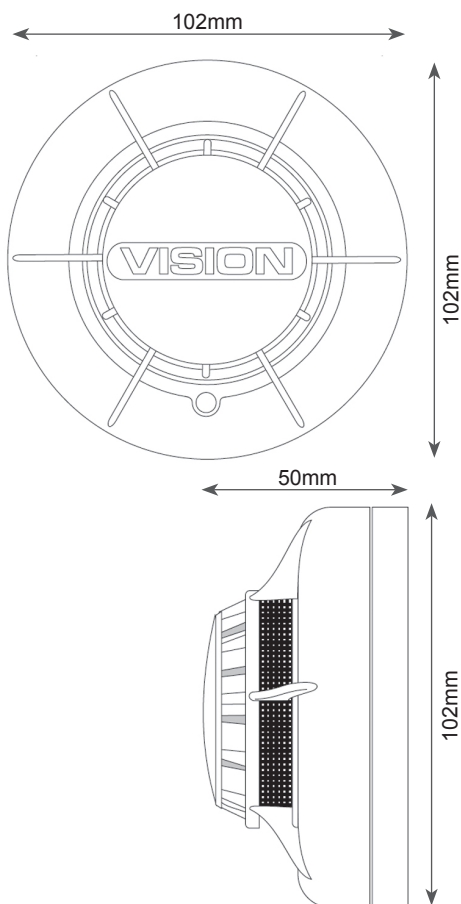


Specifications

Vision High fixed temperature BS (78°C) detector 2020HF

Mechanical Specification

- Dimensions
 - Height: 50 mm
 - Diameter: 102 mm
- Weight: 70g
- Max Wire Gauge for Terminals: 0.4mm² to 2.0mm²
- Colour: Approximates to RAL9016
- Material: ABS











Electrical Specification

- Operating Voltage Range: 14V - 28Vdc
- Maximum Alarm Current: 70mA at 28Vdc
- Current Consumption - Standby: 60µA at 24Vdc

Environmental Specifications

- Thermal element trigger point: +78°C
- Operating temperature range: -30°C to +70°C
- Humidity: 5 to 95% relative humidity (non-condensing)

Product Range at a Glance

	Description	Part Number
	Optical thermal multi criteria non-addressable detector.	2020PT
	Optical non-addressable detector.	2020P
	Rate of rise thermal A1R (58°C) non-addressable detector	2020R
	Fixed temperature thermal A2S (58°C) non-addressable detector	2020F
	High fixed temperature thermal BS (78°C) non-addressable detector	2020HF
	Detector mounting base fitted with schottky diode. For Vision detectors.	2020BSD
	Standard detector mounting base for Vision detectors.	2020B
	Remote laser test tool for Vision detectors.	2020LT