



S271 PLUS Triple Waveband Infra Red Flame Detection

The MINERVA S200 PLUS flame detectors are the latest Infrared solar blind and multi-channel infra-red flame detectors with low power consumption and high false alarm immunity. The MINERVA S200 PLUS range of advanced flame detectors is the most comprehensive range available.

Features

- Unrivalled black body rejection over a wide range of source temperatures
- Triple waveband infrared "solar blind" detection for optimum false alarm immunity
- Discrimination of optical faults (dirty windows) from other faults in the built-in self test
- Selectable range up to 50 metres for a 0.1m² n-heptane pan fire
- Very low power consumption enables up to 50 S271f+ units to be connected to a MINERVA MX digital addressable loop, (use MX designer software tool)
- Ideal for retrofit application as can be used with a variety of existing cables

Triple Waveband InfraRed Flame Detection

The MINERVA S271f+ and S271i+ Triple IR Flame Detector is the latest addition to the well proven MINERVA S200+ range of Solar Blind Advanced Flame Detectors. Like the other detectors in this range, this advanced flame detector is a multi-channel infrared flame detector with low power consumption and high false alarm immunity. It also incorporates the proven detection capability of the S100 and S200 flame detectors, which have had over 26,000 installations worldwide. It is currently available as flameproof or intrinsic safe version, fully approved by ATEX. By incorporating an interface to the MX DIGITAL loop, the S271f+ and S271i+ is fully compatible with the MINERVA MX latest generation of advanced analog addressable systems that have been designed to meet the exacting CEN standards that are increasingly being specified by system designers and installers around the world.

Specifications

Mechanical

Detector Material	Stainless Steel 316L
Dimension	167mmW x 167mmL x 89mmD
Weight	4.5Kg
Gland Entry	2 x 20mm
Metal Parts	Bright Stainless Steel 316 to (ext & int) BS 1449 Pt 2

Electrical

Supply Voltage	Loop Powered (40VDC max.)
Quiescent Current	500 μ A max.
Alarm Current	45 mA (typical)
Connections	12 way 2.5mm ² heavy duty terminal block

Signalling

Digital loop powered, quantity of devices identified with MX designer software tool

Note: It is critical that this is comprehensively done, to ensure correct capacities are selected

Environmental

Operating Temp Range	-40°C to +80°C (-20°C to +80°C for IS unit)
Storage Temperature	-40°C to +80°C
Relative Humidity	95% (100% intermittent)
Enclosure to	IP 66 and IP 67

Hazardous Area

Approval	ATEX
Rating	Zone 0 (for IS unit) 1 & 2, Group IIC

Performance

Range	0.1m ² n-heptane at 50m 0.4m ² n-heptane at 70m
Max Field of View	90°
Response Time	Field Selectable 3,6 and 12 seconds.
Sensitivity	3 range settings - Normal 25m - Extended 50m - Reduced 12.5m

Mounting Bracket

Weight	1.1 Kg
Construction	Bright Stainless Steel 316 to BS1449 Pt2
Axial Rotation	50°
Elevation	67°
Fixing Details	M8 bolts required (location template provided)

Benefits of the MINERVA[®] S271 PLUS



- The S271f+ and S271i+ in conjunction with the MINERVA MX controller offers significant advantages over other IR or UV/IR detectors currently available:
- Significant savings in cabling costs can be achieved by connecting a large number of detectors to a single two-wire loop used for alarm signalling as well as powering of the detectors; this is made possible by the extremely low power consumption (perfect for retrofit application using existing cables)
- Flexible wiring and loop configuration arrangement including spur or ring, plus use of galvanic type isolators for I.S. , gives maximum flexibility to the system designer and simplifies installation
- The detector gives accurate reports of its status to the MX controller by means of a highly resilient digital protocol enabling timely and measured executive actions, as a response to a prealarm warning, a full detected alarm or a warning of window fault
- Large or multi-building installation can be easily covered with the same system by networking several MX controllers, giving the ability of gathering all critical site information in a single operation's control room
- Full compatibility on the same loop with addressable heat, smoke, and contact monitor inputs

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tel: 133 166

www.wormald.com.au

firesafety.au@tycoint.com