

SSF-FCO-951-W IntelliQuad Multi-Criteria Fire & CO Detector

FEATURES

- ✓ AS7240.15:2018 approved
- ✓ Ability to detect all four major elements of a fire
- ✓ Separate carbon monoxide (CO) detection signal
- ✓ Drift compensation both smoke & CO sensors
- ✓ Highest nuisance alarm immunity
- ✓ Only single SLC address
- ✓ 10-year CO cell with end-of-life warning
- ✓ RealTest® CO testing capability
- ✓ Dual LEDs for 360 visibility
- ✓ FlashScan protocol support



PRODUCT DESCRIPTION

The IntelliQuad® Multi-criteria Fire & CO detector is a plug-in, addressable device that provides both fire and carbon monoxide (CO) detection. The detector combines four separate sensing elements in one unit to sense multiple components of a fire ie smoke, CO, light/flame, and heat. This approach enables enhanced sensitivity to real fire with heightened immunity to nuisance particulates. For CO, the detector's electrochemical sensing cell creates a separate signal for life safety CO detection.

Multiple sensors and communication can greatly reduce nuisance alarms compared to single sensing methods. Sophisticated algorithms maximize the advantages of each sensor type, delivering the most effective detection strategy with heightened immunity to nuisance particulates and enhanced sensitivity to real fire.

- **Photoelectric sensors** detect airborne particles associated with smoke
- **Thermal sensors** detect heat and rate-of-rise (57.2°C fixed temperature threshold)
- **Carbon Monoxide sensors** detect this by-product of fire for accurate fire detection
- **Infrared sensors** discern light patterns in the environment as an additional data point for alarm determination

This ability to reject certain nuisance alarm triggers, such as theater smoke, supports the use of the IntelliQuad PLUS Series detector in applications where moderate to heavy nuisance conditions exist that might cause single sensing detectors to false alarm.

TECHNICAL SPECIFICATIONS

Dimension	Size: 5.3cm high, 10.4cm diameter when installed on B501AUS
Weight	95g
Colour	White (-W)
Operating Temperature Range	-10 °C to 50 °C
Operating Humidity Range	15% - 90% non-condensing
Relative Humidity	15% - 90% non-condensing
Air Velocity	0 - 1219.2 m/minute
Sensitivity Range	3.24% per metre 12.5% per meter (meets Band 1 & 2 classification)

Operating Voltage Range	15 - 32 VDC
Operating Current	200uA @ 24VDC (one communication every 5 seconds with greenLED enabled)
Maximum Alarm Current	2mA @ 24VDC (one communication every 5 seconds with red LED solid on)
Maximum Current	4.5mA @ 24VDC (one communication every 5 seconds with red LED solid on)
Isolator Load Rating	0.0063

CO MONITORING REFERENCE

Alarm Thresholds: Parts Per Million	Detector Response Time
70 + 5ppm	60 - 240 min
150 + 5ppm	10 - 50 min
400 + 10ppm	4 -15 min

ORDERING INFORMATION

Part Number	SAI Global Part No.	Description	SAI Global Cert No.
SSF-FCO-951-W	FCO-951AUS	IntelliQuad Multi-Criteria Fire & CO detector, FlashScan, White	SMK40640-2
SSF-BASE-W	B501AUS-W	White base to suit FlashScan detectors	SMKH25312
SSF-ISOBASE-W	B524IEFT-1W	White isolator base to suit FlashScan detectors	SMKH25312

Additionally, ivory and black trim kits are available in packs of 10 for situations where alternate colours are required. Please contact your local FireSense branch for further information.

APPROVALS

- ✓ Approved to AS 7240.15:2018 standards
- ✓ SAI GLOBAL Certificate SMK40640-2 and SMKH25312