



SS-Series Advanced Multi-Criteria Fire/CO Detector

World-class four-sensor, multi-criteria fire and carbon monoxide (CO) detection combined in a single addressable device.

Features

- Unique ability to detect all four major elements of a fire
- Separate CO detection signal
- Highest nuisance alarm immunity
- Automatic drift compensation of smoke sensor and CO cell
- Uses only one address on the SLC
- RealTest® CO testing capability
- UL 268 7th edition, UL 521, and UL 2075 listed
- Separates audible signal for fire or CO alarm when used with a B200S series base
- 10-year CO cell with end-of-life warning and fault
- New modern profile
- Expanded color options



SS-FIRE-CO Advanced Multi-Criteria Fire/CO Detector installed in B200S-WH sounder base

SS-Series smoke detectors are intelligent (addressable) detectors with point ID capability that enable each detector address to be set with rotary address switches providing exact device locations. SS-Series detectors support current SK, LiteSpeed™ and SS Protocol systems. Refer to the Addressable Detector and Sounder Base Compatibility Chart or the Intelligent Control Panel SLC Wiring Manual for specific panel compatibility. Detector sensitivity is continually monitored and reported to the fire alarm control panel. The modern design and expanded color options support contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

The System Sensor SS-FIRE-CO is an intelligent, multi-criteria detector incorporating photoelectric, thermal, infrared and Carbon Monoxide (CO) detection principles that provide both fire and CO detection. For fire, sophisticated algorithms maximize the advantages of all four sensor types creating our best detection strategy offering heightened immunity to nuisance particulate and enhanced sensitivity to real fire.

Multiple sensors and communication can greatly reduce nuisance alarms compared to single sensing methods.

- Photoelectric sensors are designed to detect particulate in the air associated with smoke.
- The thermal sensors detect heat including its rate-of-rise with a 135°F fixed temperature threshold.
- Carbon Monoxide is a by-product of fire and offers a valuable element for accurate fire detection.
- The Infrared sensor discerns 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 fire/CO detector in applications where moderate to heavy nuisance conditions exist that might cause single sensing detectors to false alarm.

The fire/CO detector meets both UL 268 7th edition and UL 521 listing requirements for fire detection as well as the UL 2075 standard

Agency Listings



7272-1653:0530

for system-connected life safety carbon monoxide detection.

Released through the incomplete burning of various fuels, CO is a colorless, odorless and deadly gas that is virtually impossible to detect with the human senses. Because dangerous levels of CO can accumulate in almost any building, legislation mandating the use of CO detection in commercial spaces continues to grow.

SS-FIRE-CO is recommended for use with B200S series intelligent sounder bases, which can generate either a Temp 3 pattern for fire or Temp 4 for CO alarm indication. B200S series bases recognize the System Sensor synchronization protocol. This enables it to be used as a component of the general evacuation signal — along with other System Sensor horns, horn strobes, and chimes — when connected to a power supply or Fire Alarm Control Panel (FACP) output capable of generating the System Sensor synchronization pulses.

SS-Series Multi-Criteria Fire/CO Detector Specifications

Physical Specifications	
Height	2.7" (69 mm) installed in B200S series sounder base
Diameter	6.875" (175 mm) installed in B200S series sounder bases
Weight	3.4 oz. (95 g)
Color	White
Operating Humidity Range	15% to 90% Relative Humidity, Non-condensing
Operating Temperature Range	32°F to 115°F (0°C to 47°C)
Air Velocity	0 to 4000 ft./min. (0 to 1219.2 m/min.)
Sensitivity Range	Open Area 2.50-4.32 %/FT. Special Application 1.13-2.50%/FT.
Electrical Specifications	
Operating Voltage Range	15 to 32 VDC
Operating Current @ 24 VDC:	200 uA (one communication every 5 seconds with green LED blink on communication)
Maximum Alarm Current:	2 mA @ 24 VDC (one communication every 5 seconds with red LED solid on)
Maximum Current:	4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED solid on)
Isolator Load Rating:	0.0063

CO Monitoring UL Standard Reference – Alarm Thresholds are as Follows:

Parts Per Million	Detector Response Time
70 ± 5ppm	60 – 240 min.
150 ± 5ppm	10 – 50 min.
400 ± 10ppm	4 – 15 min.

Per UL standard 2075, the SS-FIRE-CO has been tested to the sensitivity limits defined in UL standard 2034.

Ordering Information

Part No.			Description
White	Ivory	Black	
SS-FIRE-CO	—	—	Advanced Multi-Criteria Fire/CO Detector
Bases			
B501-WHITE	B501-IV	B501-BL	4" Mounting base
B501-WHITE-BP	—	—	4" mounting base, bulk pack
B300-6	B300-6-IV	—	6" Flanged mounting base
B300-6-BP	—	—	6" Flanged mounting base, bulk pack
B200S-WH	B200S-IV	—	Intelligent addressable sounder base
B200S-LF-WH	B200S-LF-IV	—	Intelligent addressable sounder base, low-frequency
B224BI-WH	B224BI-IV	—	Isolator base
B224RB-WH	B224RB-IV	—	Relay base
Accessories			
—	SMB600	—	Surface Mounting Kit (flanged)
TR300	TR300-IV	—	Trim ring
CK300-IR	CK300-IR-IV	CK300-IR-BL	IR Color Kit (includes cover and trim ring)
—	RA100Z	—	Remote LED annunciator
M02-04-00	—	—	Detector test magnet
M02-09-00	—	—	Telescoping test magnet

Accessories

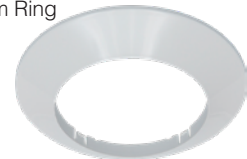
RA100Z
Remote LED
Annunciator



CK300-IR-BL
Color Kit



TR300
Trim Ring



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