

# MCS-COP3

## Addressable Multi-Criteria Photo/CO Detectors

**MCS-COP3 is an intelligent, addressable smoke and carbon monoxide (CO) detector with integral communication to provide point location for alarm communication and selective maintenance.**

This detector has point ID capability that enables each detector address to be set with rotary address switches providing exact device locations. The modern design and expanded color options support contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

MCS-COP3 is an intelligent, multi-criteria detector that incorporates photoelectric and carbon monoxide (CO) detection principles. MCS-COP3 offers a cost-effective solution meeting both the UL 268 7th edition standard for smoke detection and UL 2075 standard for system-connected life safety carbon monoxide detection. The dual function of this single device makes it ideal for installations such as hotels, schools and high-rise residential applications that require both smoke and CO 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 the potential exists for dangerous levels of CO to accumulate in almost any building, legislation mandating the use of CO detection in commercial spaces continues to grow.

MCS-COP3 is recommended for use in conjunction with the B200S series intelligent sounder bases. These bases can generate either a Temp 3 pattern for fire or a Temp 4 pattern for CO alarm indication. The 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.



*MCS-COP3 installed in B200S-WH sounder base*

## FEATURES AND BENEFITS

- Combination smoke and CO detector
- Automatic drift compensation of smoke sensor and CO cell
- Uses only one address on the SLC
- RealTest® CO testing capability
- UL 268 7th edition and UL 2075 listed
- Separate 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 with black and ivory color kits

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# MCS-COP3 TECHNICAL SPECIFICATIONS

## PHYSICAL

**Height:** 2.7 in. (69 mm) installed in B200S series sounder base

**Diameter:** 6.875 in. (175 mm) installed in B200S series sounder base

**WEIGHT:** 3.4 oz. (95 g)

**Color:** White

## ENVIRONMENTAL

**Operating Humidity Range:** 15% to 90% Relative Humidity, Non-condensing

**Operating Temperature Range:** 32°F to 122°F (0°C to 50°C)

**Air Velocity:** 0 to 4000 ft./min. (0 to 1219.2 m/min.)

## ELECTRICAL

**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

## SYSTEM COMPATIBILITY

**Communication Protocol:** Velociti®

**E3 Series:** Firmware Version 4.10 or higher.

**S3 Series:** Firmware Version 1.21 or higher.

**NGA:** Firmware Version 4.01 or higher.

**CAMWorks®:** Version 3.53.003 or higher.

**FocalPoint®:** Version 4.52 or higher.

## CO MONITORING

UL Standard Reference: Alarm Thresholds

| 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, MCS-COP3 has been tested to the sensitivity limits defined in UL 2034.

## ORDERING INFORMATION

### Photo/CO Detectors

**MCS-COP3:** Intelligent multi-criteria photo/CO, white, UL listed

### Bases

**B501-WHITE:** 4" Mounting base, white, UL-listed

**B501-WHITE-BP:** 4" Mounting base, white, UL-listed, bulk-pack 10

**B501-BL:** 4" Mounting base, black, UL-listed

**B501-IV:** 4" Mounting base, ivory, UL-listed

**B300-6:** 6" Flanged mounting base, UL-listed, white

**B300-6-BP:** 6" Flanged mounting base, UL-listed, white, bulk-pack 10

**B300-6-IV:** 6" Flanged mounting base, UL-listed, ivory

**B200S-WH:** Intelligent sounder base, white, UL-listed

**B200S-IV:** Intelligent sounder base, ivory, UL-listed

**B200S-LF-WH:** Intelligent sounder base, low-frequency, white, UL-listed

**B200S-LF-IV:** Intelligent sounder base, low-frequency, ivory, UL-listed

**B224BI-WH:** Intelligent isolator base, white, UL-listed

**B224BI-IV:** Intelligent isolator base, ivory, UL-listed

**B224RB-WH:** Intelligent relay base, white, UL-listed

**B224RB-IV:** Intelligent relay base, ivory, UL-listed

### Accessories

**SMB600:** Surface Mounting Kit (flanged), ivory

**TR300:** Trim ring, white. (**TR300-IV** is ivory.)

**CK300-CO:** CO Color Kit (includes cover and trim ring), white. (**CK300-CO-IV** is ivory; **CK300-CO-BL** is black.)

**RA100Z:** Remote LED annunciator, UL-listed

**M02-04-00:** Detector test magnet

**M02-09-00:** Telescoping test magnet

## AGENCY LISTINGS AND APPROVALS

**UL Listed:** S1195

**CSFM:** 7275-1703:0510

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