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

Honeywell

Gamewell FCI FIRE CONTROL INSTRUMENTS

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