

TR-MCS-COP3

Multi-Criteria Photoelectric and CO Sensor

TR-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.

TR-MCS-COP3 is an intelligent, multi-criteria detector that incorporates photoelectric and carbon monoxide (CO) detection principles. TR-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.

TR-MCS-COP3 is recommended for use in conjunction with the TR-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 TR-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.



TR-MCS-COP3
with TR-B200S-WH Sounder Base

FEATURES & 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 TR-B200S series base
- 10-year CO cell with end-of-life warning and fault
- New modern profile



Note: Specifications are subject to change without notice.



Technical Specifications

PHYSICAL

Height: 2.7" (69 mm) installed in TR-B200S series sounder base

Diameter: 6.875" (175 mm) installed in TR-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 1219.2m/min.)

ELECTRICAL

Operating Voltage Range: 15 to 32 VDC

Operating Current @ 24 VDC: 200 μ A (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 (in parts per million) are as
follows for:

- 70 $\pm$ 5ppm:
Detector response time 60 – 240 min.
- 150 $\pm$ 5ppm:
Detector response time 10 – 50 min.
- 400 $\pm$ 10ppm:
Detector response time 4 – 15 min.

ORDERING INFORMATION

TR-MCS-COP3: Intelligent Multi-Criteria Photoelectric and CO Sensor

BASES

TR-B501-WHITE: 4" Mounting base, white

TR-B300-6: 6" Flanged mounting base, white

TR-B200S-WH: Intelligent addressable sounder base, white

TR-B200S-LF-WH: Intelligent addressable sounder base,
low-frequency, white

TR-B224BI-WH: Intelligent Isolator base, white

TR-B224RB-WH: Intelligent Relay base, white

ACCESSORIES

TR-RA100Z: Remote LED annunciator

AGENCY LISTINGS AND APPROVALS

For exact certification listings for each model,
please reference the respective agency website.

UL Listed

TRIGA INVESTMENTS, LLC
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