

CARBON MONOXIDE DETECTOR

DESCRIPTION

Carbon monoxide is an odorless, colorless, tasteless and highly toxic gas that is produced when fuels, such as wood, gasoline, charcoal and oil, are burned with insufficient air. The majority of residential and commercial fatalities caused from these fuels come from heating systems, power tools and charcoal grills.

If carbon monoxide is detected, the CO detector will alert residents by sounding and flashing a temp-4 signal alarm. Protection can be guaranteed 24/7 by a central station, regardless of whether residents are away from home, sleeping or already suffering from the effects of CO.

The CO detector is specifically designed for system operation. This means the detector is fully listed to UL 2075, offering a code required trouble relay, which sends a sensor failure or end-of-life signal to the control panel and the central station, as well as SEMS-type terminal Philips-head screws, which provide a quicker and more positive wiring connection and code required wiring supervision. Also, the CO detector offers a low current draw, allowing more detectors to be connected to the panel without having to purchase a more expensive panel or an extra power supply.

Because the CO detector is a 12/24 VDC detector, it will operate on most industry security or fire alarm control panels.

FEATURES

- Full compliance with UL 2075
- A code required trouble relay
- Wiring supervision with SEMS terminals
- A six-year end-of-life timer
- 12/24 VDC
- A current draw of 20mA in standby and 40mA in alarm
- Versatile mounting for wall and ceiling
- Electrochemical sensing technology

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

Carbon monoxide detector shall be a System Sensor model number CO1224, listed to Underwriters Laboratories UL 2075 for Gas and Vapor Detectors and Sensors. The detector shall be equipped with a sounder and a trouble relay. The detector's base shall be able to mount to a single-gang electrical box or direct (surface) mount to the wall or ceiling. Wiring connections shall be made by means of SEMS screws. The detector shall provide dual color LED indication, which blinks to indicate normal standby, alarm, or end-of-life. When the sensor supervision is in a trouble condition, the detector shall send a trouble signal to the panel. When the detector gives a trouble or end-of-life signal, the detector shall be replaced. The detector shall provide a means to test CO gas entry into the CO sensing cell. The detector shall provide this with a test mode that accepts CO gas from a test agent and alarms immediately upon sensing CO entry.

ELECTRICAL SPECIFICATIONS

Operating Voltage:	12/24 VDC
Audible Signal:	85 dB in alarm
Standby Current:	20 mA
Alarm Current:	40 mA (75 mA test)
Alarm Contact Ratings:	0.5 A @ 30 VDC
Trouble Contact Ratings:	0.5 A @ 30 VDC

PHYSICAL SPECIFICATIONS

Size:	Length: 5.1" (13 cm), Width: 3.3" (8 cm), Height: 1.3" (3 cm)
Approximate Weight:	7 oz (198 grams)
Operating Temperature Range:	32 - 104°F (0 - 40°C)
Operating Humidity Range:	22-90% RH
Input Terminals:	14-22 AWG
Mounting:	Single-gang back box; surface mount to wall or ceiling



APPROVALS:

- UL - E307195
- CSFM - 5276-1653:194
- MEA - 454-06-E



MEA
approved

OPERATION MODES

Operation Mode	Green LED	Red LED	Sounder
Normal (Standby)	Blink 1 per minute	-	-
Alarm	-	Blink in temp 4 pattern	Sound in temp 4 pattern

Hush Feature: Pushing the Test/Hush button will silence the sounder for 5 minutes

Trouble Feature: When the detector is in a trouble condition, it will send a trouble signal to the panel.

End-of-life Timer: After the sensor inside the detector has reached the end of its useful life, a trouble signal will be sent to the panel. This will indicate that it is time to replace the detector. An electrochemical carbon monoxide detector lifespan is approximately six years, and the detector must be replaced by the date marked on the inside of the product.

ORDERING INFORMATION

Fike P/N	Mfg. P/N	Description
68-141	CO1224T	12/24 volt, 4-wire system-monitored carbon monoxide detector