

FIK-FC351 Multi-Criteria Fire/CO Detector

The FIK-FC351 is a plug-in addressable device that provides both fire and carbon monoxide (CO) detection. The detector combines four separate sensing elements to sense multiple components of a fire (i.e., smoke, CO, light/flame, and heat). This approach enables enhanced sensitivity to real fire with heightened immunity to nuisance particulates. For CO, the detector's electrochemical sensing cell creates a separate signal for life safety CO detection.

Multiple sensors and communication can significantly reduce nuisance alarms compared to single sensing methods. Sophisticated algorithms maximize the advantages of all four sensor types creating our best detection strategy offering high immunity to nuisance particulate and enhanced sensitivity to a real fire.

- Photoelectric sensors detect airborne particles associated with smoke.
- Thermal sensors detect heat and rate-of-rise (135°F fixed temperature threshold).
- Infrared sensors discern 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 fire/CO detector's use in applications where moderate to heavy nuisance conditions exist that might cause single sensing detectors to false alarm.

UL models meet UL 268 7th edition and UL 521 listing requirements for fire detection and UL 2075 standard for system-connected life safety carbon monoxide detection.

FEATURES

- Detects all four major elements of a fire
- Separate CO detection signal
- Separate audible signal for fire or CO alarm when used with a B200S series base
- Highest nuisance alarm immunity
- Automatic drift compensation for smoke and CO sensors
- RealTest® CO testing capability
- Uses only one address on the SLC loop
- UL 268 7th edition, UL 521, and UL 2075 listed
- 10-year CO cell with end-of-life warning
- Country of origin: Mexico



**FIK-FC351 in B200S-WH
sounder base**

AGENCY LISTINGS AND APPROVALS

- UL Listed
- Factory Mutual Approved
- CSFM

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

SPECIFICATIONS

Physical/Environmental	
Dimensions:	2.7" H x 6.875" D (69 mm x 175 mm), installed in B200S series sounder base
Weight:	3.4 oz. (95 g)
Operating Humidity Range:	15% to 90% relative humidity, non-condensing
Operating Temperature Range:	32°F to 100°F (0°C to 38°C)
Air Velocity Range:	0 – 4000 ft/min (1219.2 m/min)
Electrical	
Voltage Range:	15 – 32 volts DC
Operating Current:	200µA @ 24 VDC maximum average (one communication every 5 seconds with LED enabled)
Maximum Alarm Current:	2 mA @ 24 VDC maximum (ON) (one communication every 5 seconds with LED enabled)
Maximum Current:	4.5 mA @ 24 VDC (one communication every 5 seconds with LED enabled)
Isolator Load Rating:	0.0063
CO Monitoring UL Standard Reference	
70 ± 5 ppm alarm threshold:	Detector response time 60 – 240 min.
150 ± 5 ppm alarm threshold:	Detector response time 10 – 50 min.
400 ± 10 ppm alarm threshold:	Detector response time 5 – 15 min.

ORDERING INFORMATION

Part Number	Description
FIK-FC351	Advanced multi-criteria fire/CO detector, bright white color
Bases	
B300-6	White, standard flanged low-profile mounting base
B300-6-BP	Bulk pack of B300-6, package contains 10
B300-6-IV	Ivory, standard flanged low-profile mounting base
B501-WHITE	White, standard European flangeless mounting base
B501-BL	Black, standard European flangeless mounting base
B501-IV	Ivory, standard European flangeless mounting base
B501-WHITE-BP	Bulk pack of B501-WHITE, package contains 10
B200S-WH*	White, intelligent programmable sounder base
B200S-IV*	Ivory, intelligent programmable sounder base
B200SR-WH*	White, intelligent sounder based for retrofit applications
B200SR-IV*	Ivory, intelligent sounder base for retrofit applications
B200S-LF-WH*	White, low frequency intelligent programmable sounder base
BS200S-LF-IV*	Ivory, low frequency intelligent programmable sounder base
B200SR-LF-WH*	White, low frequency intelligent programmable sounder base for retrofit applications
B200SR-LF-IV*	Ivory, low frequency intelligent programmable sounder base for retrofit applications
B224RB-WH	White, plug-in relay base
B224RB-IV	Ivory, plug-in relay base
B224BI-WH	White, plug-in isolator base
B224BI-IV	Ivory, plug-in isolator base
Accessories	
SMB600	Surface mounting kit (flanged)
TR300	White, replacement flange for B210LP or B300-6 bases
TR300-IV	Ivory, replacement flange for B210LP or B300-6 bases
RA100Z(A)	Remote 3-32 VDC LED annunciator
M02-04-00	Test magnet
M02-09-00	Test magnet with telescoping handle
CK300-IR	White, IR detector color kit, pack of 10
CK300-IR-IV	Ivory, IR detector color kit, pack of 10
CK300-IR-BL	Black, IR detector color kit, pack of 10

*B200S series intelligent sounder bases are recommended for use with the FIK-FC351 detector. These bases can generate either a Temp 3 pattern for fire or a Temp 4 pattern for CO alarm indication.