SMOKE & CO COMBO ALARM

CAT. SC9120B

BRK®

THE PROFESSIONAL STANDARD

120VAC, 60Hz Wire-in with 9V Battery Backup

Description:

The BRK Brands, Inc. Cat. No SC9120B is a wire-in, 120 VAC 60Hz single and / or multiple station combination smoke and carbon monoxide alarm specifically designed for residential and institutional applications including sleeping rooms of hospitals, hotels, motels, dormitories and other multi-family dwellings as defined in standard NFPA 101 Model SC9120B complies with UL217, UL2034, CSFM, NFPA 72, NFPA 720, HUD, FHA and other agencies that model their codes after the above agencies. They meet building codes where AC/DC smoke and carbon monoxide alarms are required either separately or in combination. The alarms are interconnectable up to 18 devices, of which 12 can be smoke alarms.

The BRK SC9120B features a dual ionization smoke sensing chamber and an electrochemical carbon monoxide sensor, an 85dB horn, 9V battery back-up and a silence feature. “Intelligent Sensing Technology” is designed to reduce nuisance alarms. “Latching Alarm Indicator” remembers which unit initiated an alarm. When interconnected in a series, the unit that triggered the alarm will store in memory or “latch” the information and begin to flash the LED indicator 2 seconds on, 2 seconds off. The “Perfect Mount” system features a gasketless base and a mounting bracket that keeps the alarm secure over a wide rotation range to allow for true alignment. A single button test/silence button eliminates confusion. Battery installation and removal can occur while the unit is mounted to the ceiling or wall via the side load battery compartment. Other Contractor Preferred features include a dust cover to keep alarm clean during construction, keyhole slots in the mounting bracket eliminate the need to remove the electrical box screws for installation. Two locking features are provided to prevent battery theft and/or theft of the unit. Connection to AC power is made with a “Quick-Connect” wiring harness. Installation is quick, easy and cost effective.

SEPARATE SMOKE & CO

Combination alarm detects both dangers and eliminates the need for two electrical boxes.

ELECTROCHEMICAL CO SENSOR

Most accurate technology available for detecting carbon monoxide as compared to other sensing technologies.

LATCHING ALARM INDICATOR

Remembers which unit initiated an alarm.

INTELLIGENT SENSING TECHNOLOGY

Microprocessor controlled to reduce the number nuisance alarms.

TWO LOCKING FEATURES

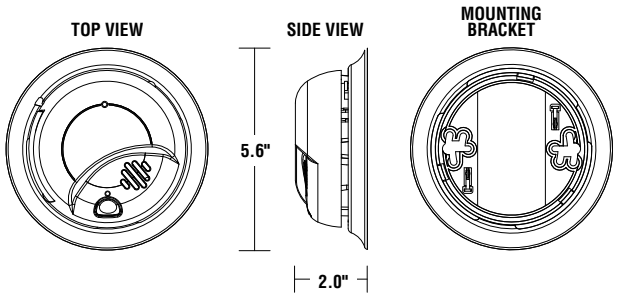
Pins lock battery drawer and/or alarm to base. Perfect for apartment, dormitory or hotel applications.

LIMITED 5 YEAR WARRANTY

IONIZATION

Listed to UL 217 & UL 2034 Standards

CAT. SC9120B



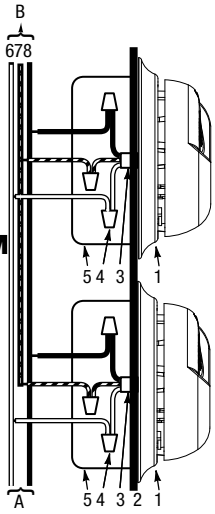
ARCHITECTURAL AND ENGINEERING SPEC

The combination smoke and carbon monoxide alarm shall be a BRK Model SC9120B and shall provide at a minimum the following features and functions:

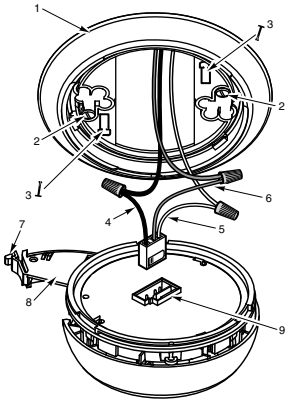
1. An ionization smoke sensing chamber and an electrochemical CO sensor.
2. Powered by 120V AC, 60Hz and have a monitored 9V battery backup and a solid state piezo horn rated at 85dB at 10 ft. and shall be capable of self restoring.
3. The unit shall perform self diagnostic tests and issue a malfunction warning (three chirps) if the unit malfunctions.
4. A visual power-on indicator to confirm unit is receiving AC power or has switched to battery backup mode. Separate LED 's to indicate a smoke or CO alarm.
5. The CO sensor is adjusted not to detect CO levels below 30 PPM and will not alarm when exposed to constant levels of 30 PPM for 30 days. It will alarm at the following levels: 400 PPM CO between 4 and 15 minutes, 150 PPM CO between 10 and 50 minutes and 70 PPM CO between 60 and 240 minutes.
6. A test/silence button to check all alarm functions and to silence any nuisance alarms. In addition, the unit shall have a low battery silence feature to quiet the low battery chirp for up to eight hours.
7. Two Locking features - tamper resistant locking pins that lock battery drawer and/or alarm to mounting bracket.
8. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C) and relative humidity between 10% and 95%.
9. The unit shall have a plug in connector and be capable of interconnection of up to 18 alarms, 12 of which can be smoke alarms.
10. The unit shall at a minimum meet the requirements of UL217 and UL2034, CSFM, NFPA 72 and 720 and the ICC.

INSTALLATION OF ALARM

Installation of this smoke alarm must conform to all local electrical codes and Article 760 of the National Electrical Code (NFPA 70) and NFPA 72. Interconnected units must meet the following requirements: Total length of wire interconnecting units should be less than 1000 feet, be #18 gauge or larger and be rated at least 300V. It is recommended that all units be on the same fuse or circuit breaker. If local codes do not permit, be sure the neutral wire is common to both phases.



THE PARTS OF THIS SMOKE/CO ALARM



1. Mounting bracket
2. Mounting Slots
3. Locking Pins
4. Hot (Black) AC Wire
5. Nuetral (White) AC Wire
6. Interconnect (Orange) Wire
7. Battery Drawer Latch
8. Battery Drawer - Install 9V battery here
9. Quick-Connect Plug

A. Unswitched 120VAC 60 Hz source
B. To additional units; Maximum = 18 total (Maximum 12 Smoke Alarms)

1. Smoke/CO Alarm
2. Ceiling or Wall
3. Power Connector
4. Wire Nut
5. Junction Box
6. Neutral Wire (White)
7. Interconnect Wire (Orange)
8. Hot Wire (Black)

TECHNICAL SPECS

Alarm Dimensions:	5.6" dia x 2.0"H
Weight:	8.5 oz
Operating Voltage:	120V AC 60Hz w/ 9V battery backup
Operating Current:	.09 amps (standby/alarm)
Temperature Range:	40°F (4°C) to 100°F (38°C)
Humidity Range:	10% to 95% relative humidity (RH)
Audio Alarm:	85dB at 10 feet
Test/Silence:	Electronically simulates smoke condition or carbon monoxide condition, causing the unit to alarm Press and hold test/silence button
Alarm Reset:	Automatic when smoke and/or CO clears
Interconnections:	Up to 18 units of First Alert or BRK Smoke, CO and Heat Alarms. Maximum of 12 smoke alarms. See user's manual for details.
Smoke Sensor:	Dual chamber ionization
CO Sensor:	Electrochemical
Indicator Lights/Sounds:	
AC Power:	Constant Green LED
DC Power:	Intermittent Green LED
Local Alarm:	Red LED flashes rapidly
Remote Alarm:	Red LED out.
Alarm Latch:	Red LED flashes every 5 seconds after local alarm stops
Listing:	Listed to UL217 and UL2034 Standards

SHIPPING SPECS:

Individual Carton Dimensions	5.69"L x 2.25"W x 5.59"H
Weight	0.63 lbs.
Cube	0.041 ft3
UPC	0 29054 51306 9
Master Carton Dimensions	14.43"L x 6.19"W x 12.63"H
Master Pack	12
Weight	8.1 lbs.
Cube:	0.65 ft3
I2of5:	100 29054 51306 6
Pallet Information	
Cases per Layer	19
Number of Layers:	3
Cases per Pallet:	57
Units per pallet:	684
Cube:	42.2 ft3
Weight:	464 lbs.

BATTERY DRAWER LOCK

Remove Pin

Push locking pin through hole near battery drawer on the back of the alarm.

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brkelectronics.com

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