BRK ELECTRONICS®

COMBINATION SMOKE/CO ALARM

SC9120A - 120V AC Wire-in

SC9120BA - 120V AC Wire-in w/9V Battery Back-up

DESIGNED WITH CONTRACTORS IN MIND! BRK ELECTRONICS® ™

9120 THE REVOLUTION SERIES

Features

Benefits

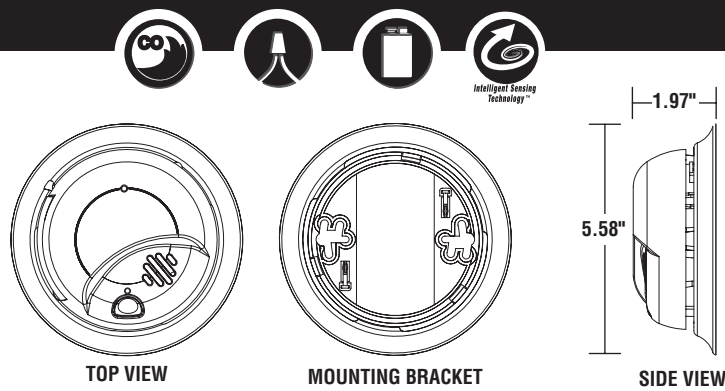| Features	Benefits
Combination Smoke and CO in one unit	Combination smoke and CO alarm eliminates the need for two electrical boxes and features a permanently installed CO sensor and a dual ionization smoke sensor.
"Intelligent Sensing Technology"	Microprocessor controlled to reduce nuisance alarms.
Latching Alarm Indication	When interconnected in a series, the unit that triggered the alarm rapidly flashes its red LED indicator. After the alarm condition subsides, the initiating unit will store in memory or "latch" the information and begin to flash the red LED indicator once every 5 seconds.
Single Button Test/Silence	Eliminates confusion. Depending on what mode the alarm is in, pushing the button will test, silence, or re-test the alarm when in silence and clear the latching feature.
Operates on 120VAC (9120BA) with 9V battery back-up	Keeps alarm working during a power failure.
Easy access side-load battery drawer (9120BA)	Battery installation and removal can occur while the unit is mounted to the ceiling or wall via the side load battery compartment.
"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. This will allow fine-tuning on the positioning to compensate for out of aligned wall studs.
Interconnectable—up to 18 devices, of which 12 can be smoke alarms	Can be interconnected with up to 12 smoke alarms and the remaining six be combination units and / or RM4 relays.
"Quick-Connect" wiring harness	Provides quick and easy connection to AC power

LIMITED 5 YEAR WARRANTY

IONIZATION

ULc

ISO 9002

BSI Registered Firm—Certificate #FM21268

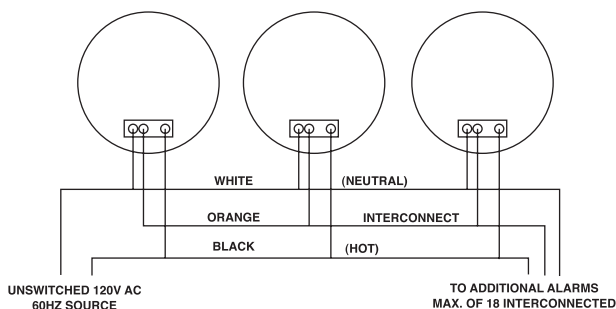**TOP VIEW** **MOUNTING BRACKET** **SIDE VIEW**

1.97"
5.58"

Architectural and Engineering Specifications

The combination smoke & carbon monoxide alarm models SC9120A and SC9120BA shall be BRK Electronics® and shall provide at a minimum the following features and functions:

1. A permanently installed carbon monoxide sensor and a dual ionization smoke sensor.
2. Powered by 120V AC, 60Hz and have a monitored 9V battery back-up (only SC9120BA). In battery back-up mode, the battery must last for 8 hours minimum in standby and then 12 hours minimum in alarm.
3. A visual LED (green) power-on indicator to confirm unit is receiving AC power and a (green intermittent) indicator to confirm unit has switched to battery back-up mode. A red LED to indicate when in smoke alarm and another red LED to indicate when in CO alarm.
4. 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 under 30% to 70% relative humidity: 400 PPM CO between 4 and 15 minutes, 150 PPM CO between 10 and 50 minutes and 70 PPM between 60 and 240 minutes.
5. 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 (SC9120BA only) to quiet the low battery chirp for up to eight hours.
6. The unit shall perform self diagnostic tests every second and issue a malfunction warning (three rapid chirps) if the unit malfunctions.
7. A solid state piezo horn rated at 85dB at 10 ft. that provides a repeating horn pattern. Smoke Alarm: continuous beeps; CO alarm: 4 rapid beeps, pause, 4 rapid beeps, pause.
8. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C) and relative humidity between 10% and 90%.
9. The unit shall center mount to any standard electrical junction box up to 4 inches diagonal without screw removal. Larger boxes may require an adapter plate.
10. The unit shall have an optional locking mechanism to deter theft of battery and/or theft of the unit.
11. The unit shall have a plug-in connector and be capable of interconnection of up to 18 alarms.
12. The unit shall have a gasketless base for easy installation and be capable of keeping the alarm secure over a wide rotation range to allow for true alarm alignment.
13. The unit shall at a minimum meet the requirements of ULC S-531-02 and CSA 6.19-01.

Installation Of Combination Alarm

Installation of this smoke alarm must conform to all local electrical codes and Canadian Electrical Code C22.1. 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.

WHITE   (NEUTRAL)
ORANGE   INTERCONNECT
BLACK   (HOT)

UNSWITCHED 120V AC
60HZ SOURCE

TO ADDITIONAL ALARMS
MAX. OF 18 INTERCONNECTED

TECHNICAL SPECS:

Alarm Dimensions	5.58" dia. x 1.97" H
Weight	8.5 oz.
Operating Voltage	120V AC 60Hz pure sine wave (SC9120A) w/9V battery backup (SC9120BA)
Operating Current	.09 amps (standby/alarm)
Temperature Range	40˚F (4˚C) to 100˚F (38˚C)
Humidity Range	10% to 90% relative humidity (RH)
Audio Alarm	85dB at 10 feet
Test Button	Electronically simulates a smoke or CO condition, causing the unit to alarm.
Alarm Reset	Automatic when smoke and/or CO clears. Press test/silence button to reset manually.
Interconnections	Up to 18 units of which 12 can be smoke alarms
Sensor	Dual ionization, CO sensor Metal Oxide
Indicator LEDs	AC Power: Constant Green LED DC Power (SC9120BA) : Intermittent Red LED Remote Alarm: Red LED out Local Alarm: Red LED flashes rapidly Latching Alarm: Red LED flashes 5 sec. after local alarm stops
Listing	ULC S-531-02, CSA 6.19-01

SHIPPING SPECS:

Individual Carton Dimensions	5.69"L x 2.25"W x 5.59"H
Weight	.63 lbs.
Cube	.04 ft³
UPC	0 29054 51306 9
Master Carton Dimensions	14.43" L x 6.19" W x 12.63" H
Master Pack	12
Weight	8.14 lbs
Cube	.65 ft³
UPC	100 29054 51306 6
Pallet Information	
Cases per Layer	19
Number of Layers	3
Cases per Pallet	57
Cube	42.2 ft³
Weight	464 lbs.

Contact:
Dicon Global Inc.
88B East Beaver Creek Road, Unit 6
Righmond Hill, Ontario Canada L4B 4W2
info@diconglobal.com
Tel: 905-482-3270   Fax: 905-731-8267