

# THE REVOLUTION

# Faster, Better Smarter

## Cat. 9120/9120B Smoke Alarm



120V AC, 60Hz Wire-in  
with 9V Battery Back-up (9120B)

The BRK Brands, Inc. Cat. Nos. 9120 and 9120B are wire-in, 120V AC 60Hz single and/or multiple station smoke alarms 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. Models 9120 and 9120B comply with UL217, CSFM, NFPA 72, HUD, FHA and other agencies that model their codes after the above agencies. They meet building codes where AC and AC/DC with Silence smoke alarms are required. The alarms are interconnectable with up to 18 devices, of which 12 can be smoke alarms.



**Dual ionization sensing chamber** - screened for insect protection.

**"Smart Technology" system** - A system of improvements designed to reduce nuisance alarms. A redesigned cover, metal sensing chamber and new integrated circuit (IC) work together 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 green LED indicator 2 seconds on, 2 seconds off.

**"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 and to keep the wording level when wall mounting.

**Single button test/silence** - Eliminates confusion. Depending on what mode the alarm is in, pushing the button will test, silence, re-test the alarm when in silence and clear the latching feature.

**85dB horn** - meets UL standards

**Easy access side-load battery drawer** - Battery installation and removal can occur while the unit is mounted to the ceiling or wall via the side load battery compartment.

**Battery backup power supply** - on the 9120B model, keeps alarm working during a power failure, providing battery is installed properly and is fresh.

### Other Contractor Preferred features

- A dust cover to keep alarm clean during construction.
- Keyhole slots in the mounting bracket eliminate the need to remove the junction 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.

Available in the following versions:

9120	AC Alarm with silence
9120B	AC Alarm with silence and battery backup
9120AB	Same as 9120B but with alkaline battery
9120LB	Same as 9120B but with lithium battery



BSI Registered Firm—Certificate #FM21268

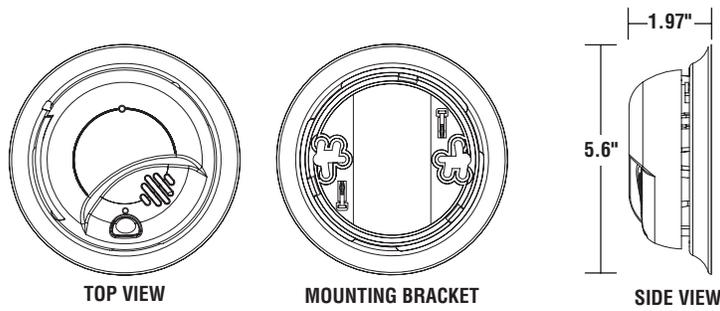


**BRK**<sup>®</sup>  
THE PROFESSIONAL STANDARD

**SAVES YOU TIME - Reduces Nuisance Alarms - SAVES YOU MONEY**

# CAT. 9120, 9120B

120V AC, 60Hz Wire-in  
with 9V Battery Back-up (9120B)



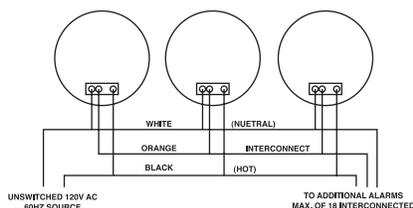
## Architectural and Engineering Specifications

1. The unit shall be capable of self restoring.
2. A screened sensing chamber to prevent entry of small insects thereby reducing the probability of unwanted nuisance alarms.
3. Powered by 120V AC, 60Hz and have a monitored 9V battery backup (model 9120B only).
4. A visual LED (green) power-on indicator to confirm unit is receiving power. A visual LED (red) power-on indicator to confirm unit is working properly.
5. A test button to check all alarm functions by stimulating the chamber to simulate a smoke condition, causing the unit to alarm.
6. A solid state piezo horn rated at 85dB minimum at 10 ft.
7. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C) and relative humidity between 10% and 90%.
8. The unit shall center mount to any standard electrical junction box up to 4 inches octagonal without screw removal and shall be listed for wall or ceiling mounting.
9. The unit shall have an optional locking mechanism to deter battery removal (model 9120B only) and /or theft of the unit.
10. The unit shall have a gasketless base for easy installation and be capable of keeping alarm secure over a wide rotation range to allow for true alarm alignment.
11. 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.
12. The unit shall at a minimum meet the requirements of UL217, CSFM, NFPA 72, NFPA 101, ICBO, BOCA, SBCCI and CABO.

## Installation of Smoke 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.



## Technical Specifications

Alarm Dimensions	5.58" dia x 1.97"H
Weight	6.5 oz (9120); 7.8 oz (9120B)
Operating Voltage	120V AC 60Hz w/ 9V battery backup
Operating Current	.04 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 minimum at 10 feet
Test Button	Electronically simulates the smoke condition, causing the unit to alarm.
Alarm Reset	Automatic when smoke clears
Interconnections	Up to 18 units with Cat. Nos. 100S, 2002RAC, 4120, 4120AB, 4120B, 4120SAB, 4120SB, 4919, 5919, 5919TH, 7010, 7010B, 9120, 9120B, SC6120B, SC9120B, CO5120BN; CO5120PDBN, HD6135B, HD6135FB and RM-3. Maximum of 12 smoke alarms.
Sensor	Dual chamber ionization
Indicator LED	AC Power: Constant Green LED DC Power (9120B): Intermittent Red LED Remote Alarm: Red LED out Local Alarm: Red LED flashes rapidly Latching Alarm: Green LED flashes 2 sec. on/2 sec. off after local alarm stops
Listing	UL 217

## Shipping Specifications

Individual Carton Dimensions	5.69"L x 2.25"W x 5.59"H
Weight	.53 lbs. (9120); .61 lbs. (9120B)
Cube	.041 ft <sup>3</sup>
UPC	9120: 0 29054 51300 7 9120B: 0 29054 51301 4 9120AB: 0 29054 51302 1 9120LB: 0 29054 51303 8
Master Carton Dimensions	14.43"L X 6.19"W X 12.63"H
Master Pack	12
Weight	7.0 lbs. (9120); 7.9 lbs. (9120B)
Cube	.653 ft <sup>3</sup>
UPC	9120: 100 29054 51300 4 9120B: 100 29054 51301 1 9120AB: 100 29054 51302 8 9120LB: 100 29054 51303 5
Pallet Information	
Cases per Layer	19
Number of Layers	3
Cases per Pallet	57
Cube	42.2 ft <sup>3</sup>
Weight	359 lbs. (9120); 450 lbs. (9120B)

Manufactured By:  
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