SMOKE ALARM

BRK®

THE PROFESSIONAL STANDARD

CAT. 9120 Series

(Model 9120B only)

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

Description:

The BRK Brands, Inc. Model Numbers 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.
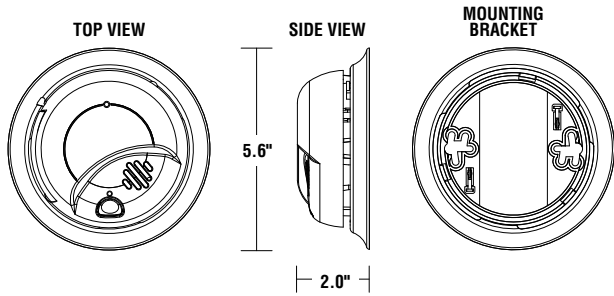
The BRK® 9120 Series alarms feature a dual ionization smoke sensing chamber screened for insect protection, an 85dB horn, 9V battery back-up (all versions except model 9120) and a "silence" feature. The "Smart Technology" system is designed to reduce nuisance alarms. "Latching Alarm Indication" remembers which unit initiated an alarm. 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. 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. 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. A Single button test/silence button 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. 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.

DUAL IONIZATION
Dual Ionization sensing chamber. Generally more effective at detecting small particles produced by flaming fires. Sources may include paper or kitchen grease.

LATCHING ALARM INDICATOR
Remembers which unit initiated an alarm.

SINGLE BUTTON TEST/SILENCE
Silences and tests alarm with a single button.

TWO LOCKING FEATURES
Pins are provided to lock battery drawer and/or alarm to base. Perfect for apartment, dormitory or hotel applications.

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
9120B-48P	48 pack of Boxed 9120B
9120B-48B	48 pack of Bulk 9120B
9120B-GFD	18 count Gravity Feed Display
91206CP	Contractor Bulk 6-pack of 9120 Alarm
9120B6CP	Contractor Bulk 6-pack of 9120B Alarm

LIMITED 10 YEAR WARRANTY

IONIZATION

Listed to
UL 217
Standard

CAT. 9120 Series

(Model 9120B only)

TOP VIEW	SIDE VIEW	MOUNTING BRACKET

5.6"

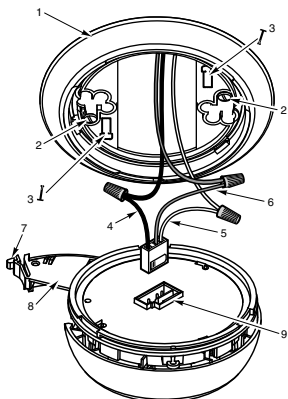2.0"

ARCHITECTURAL AND ENGINEERING SPEC

The smoke alarm shall be a BRK Model 9120B (battery backup) or 9120 (no battery backup) and shall provide at a minimum the following features and functions:

1. A Ionization smoke sensing chamber.
2. The unit shall be capable of self restoring.
3. Fully screened sensing chamber to resist entry of small insects thereby reducing the probability of unwanted alarms.
4. Powered by 120V AC, 60Hz and have a monitored 9V battery backup model (9120B only). and a solid state piezo horn rated at 85dB at 10 ft.
5. A visual green LED power-on indicator to confirm unit is receiving power or is in alarm.
6. A full function test button should check all alarm functions by simulating a smoke condition, causing the unit to alarm.
7. Silence feature - Temporarily silence unwanted nuisance alarms.
8. Two Locking features - tamper resistant locking pins that lock battery drawer and/or alarm to mounting bracket.
9. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C) and relative humidity between 10% and 90%.
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, ICC
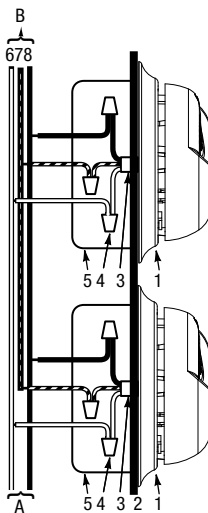
INSTALLATION OF ALARM

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 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 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:	6.5 oz (9120); 7.8 oz (9120B)
Operating Voltage:	120V AC 60Hz w/ 9V battery backup (9120B only)
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 at 10 feet
Test/Silence:	Electronically simulates smoke condition, causing the unit to alarm Press and hold test/silence button
Alarm Reset:	Automatic when smoke 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
Indicator Lights/Sounds:	
AC Power:	Constant Green LED
DC Power:	Intermittent Red LED (9120B only)
Local Alarm:	Red LED flashes rapidly
Remote Alarm:	Red LED out.
Latching Alarm:	Green LED flashes 2 sec. on/2 sec. off after local alarm
Listing:	Listed to UL217 Standard

SHIPPING SPECS:

Individual Carton Dimensions	5.69"L x 2.25"W x 5.59"H
Weight	0.53 lbs. (9120); .61 lbs. (9120B)
Cube	0.041 ft3
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 (9120, 9120B, 9120AB, 9120LB) 18 (9120B-GFD) 48 (9120B-48P, 9120B-48B)
Weight	7.0 lbs. (9120) 7.9 lbs. (9120B) 12.8 lbs: (9120B-GFD) 25.0 lbs (9120B-48P, 9120B-48B)
Cube:	0.653 ft3 (9120, 9120B, 9120AB, 9120LB) 1.20 ft3 (9120B-GFD) 2.36 ft3 (9120B-48P, 9120B-48B)
I2of5:	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 (9120, 9120B, 9120AB, 9120LB) 21 (9120B-GFD) 6 (9120B-48P, 9120B-48B)
Number of Layers:	3 (9120, 9120B, 9120AB, 9120LB) 2 (9120B-GFD) 3 (9120B-48P, 9120B-48B)
Cases per Pallet:	57 (9120, 9120B, 9120AB, 9120LB) 42 (9120B-GFD) 18 (9120B-48P, 9120B-48B)
Units per Pallet:	684 (9120, 9120B, 9120AB, 9120LB) 756 (9120B-GFD) 864 (9120B-48P, 9120B-48B)
Cube:	42.2 ft3 (9120, 9120B, 9120AB, 9120LB) 55.8 ft3 (9120B-GFD) 43.4 ft3 (9120B-48P, 9120B-48B)
Weight:	393 lbs. (9120) 439 lbs. (9120B, 9120AB, 9120LB) 601 lbs: (9120B-GFD) 479 lbs (9120B-48P) 649 lbs. (9120B-48B)

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