

# SMOKE ALARM

**9120A - 120V AC Wire-in**

**9120BA - 120V AC Wire-in  
w/9V Battery Back-up**



## Features

Dual Ionization Sensing Technology

"Smart Technology" system

Latching Alarm Indication

Single Button Test/Silence

Operates on 120VAC (9120BA) with 9V battery back-up

Easy access side-load battery drawer (9120BA)

Locking Features

Interconnectable—up to 18 devices, of which 12 can be smoke alarms

"Quick-Connect" wiring harness

## Benefits

Ionization technology is most sensitive to fast flaming fires. The sensing chamber is screened for insect protection.

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.

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.

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.

Keeps alarm working during a power failure.

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

Pins are provided to lock battery drawer (*9120BA only*) and / or alarm to base. Great for apartment, dormitory or hotel applications where unauthorized removal of alarm is not desired.

Can be interconnected with up to 12 smoke alarms and the remaining six can be combination units and / or RM4 realys.

Provides quick and easy connection to AC power

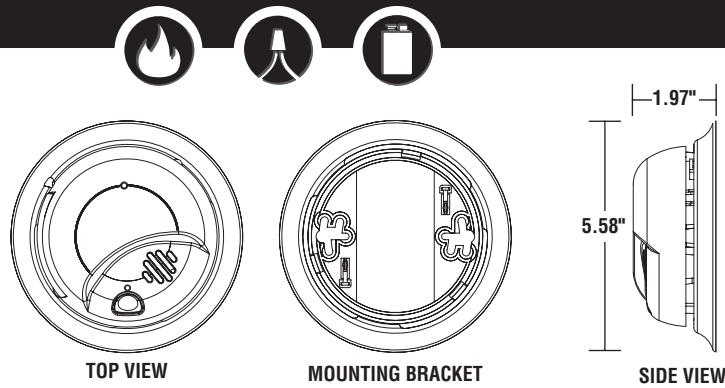
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BSI Registered Firm—Certificate #FM21208

CAT. **9120A - 120V AC, 60Hz, Wire-in**  
**9120BA - with 9 volt battery back-up**

# SMOKE ALARMS



## 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 9120BA 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 3 meters.
7. The unit shall be capable of operating between 4 degrees C (40 degrees F) and 38 degrees C (100 degrees F) and relative humidity between 10% and 90%
8. The unit shall center mount to any standard electrical junction box up to 4 inches diagonally 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 9120BA 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 ULC S-531-02.

## Installation Of Smoke Alarm

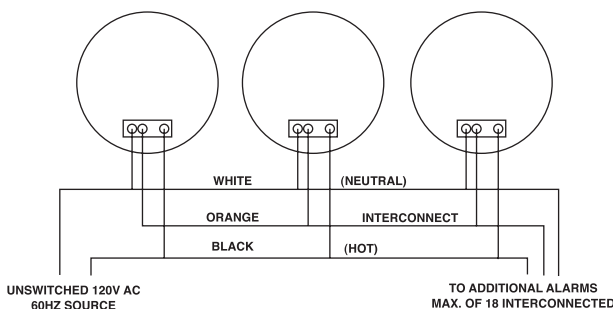
Installation of this smoke alarm must conform to all local electrical codes and Canadian Electrical Code C22.1. Interconnected units must meet the following requirements: Total length of wire interconnecting units should be less than 1000 feet, be #18 gauge or larger and be rated at least 300V. It is recommended that all units be on the same fuse or circuit breaker.

### TECHNICAL SPECS :

Alarm Dimensions	5.58" dia. x 1.97" H
Weight	6.5 oz. (9120A) 7.8 oz. (9120BA)
Operating Voltage	120V AC 60Hz (9120A) 120V AC 60Hz w/9V battery backup (9120BA)
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 Button	Electronically simulates the smoke condition, causing the unit to alarm.
Alarm Reset	Automatic when smoke clears
Interconnections	Up to 18 units of which 12 can be smoke alarms
Sensor	Dual chamber ionization
Indicator LEDs	AC Power: Constant Green LED DC Power (9120BA) : 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	ULC S-531-02

### SHIPPING SPECS :

Individual Carton Dimensions	5.69"L x 2.25"W x 5.59"H
Weight	.53 lbs. (9120A); .61 lbs. (9120BA)
Cube	.04 ft <sup>3</sup>
UPC	9120A: 0 29054 00109 2 9210BA: 0 29054 00108 5
Master Carton Dimensions	14.43" L x 6.19" W x 12.63" H
Master Pack	12
Weight	7.0 lbs (9120A); 7.9 lbs. (9120BA)
Cube	.653 ft <sup>3</sup>
UPC	9120A: 100 29054 00109 9 9210BA: 100 29054 00108 2
Pallet Information	
Cases per Layer	19
Number of Layers	3
Cases per Pallet	57
Cube	42.2 ft <sup>3</sup>
Weight	359 lbs. (9120A); 450 lbs. (9120BA)



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