PHOTO/ION SENSORS
Dual Photoelectric & Ionization sensing technologies for optimal sensing of smoke particles produced in both flaming and smoldering fires.

TWO LATCHING FEATURES
Alarm Latch: Remembers which unit initiated an alarm.
Low Battery Latch: Visually identifies which unit is in low battery condition.

TWO SILENCE FEATURES
Alarm Silence: Silence an unwanted alarm for several minutes.
Low Battery Silence: Temporarily silence low battery chirp for up to 8 hours.

OPTIPATH 360 TECHNOLOGY™
Provides 360 degrees of direct access to the smoke sensing chambers.

BATTERY BACKUP
Two AA batteries provide power for the smoke alarm during power outages.

120V AC, 60Hz Wire-in
with 3V (two 1.5V AA) Battery Backup

Description:

The BRK Model No. 3120B is a wire-in, 120V AC 60Hz single and/or multiple station photoelectric and ionization dual sensor smoke 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 3120B complies with UL217, CSFM, NFPA 72, HUD, FHA and other agencies that model their codes after the above agencies. It meets building codes where AC/DC photoelectric and ionization combination smoke alarms are required.

The BRK 3120B is a state-of-the-art hardwired with battery backup smoke alarm that features dual photoelectric and ionization smoke sensing technologies. This alarm features two latching features and two silence features. Alarm Latch: Easily identifies initiating alarm even after alarm condition has subsided. Low Battery Latch: Identifies which unit is in low battery condition by blinking the green power light. Low Battery Silence: Temporarily silence the low battery chirp for up to eight hours. Alarm Silence: Silence alarm for several minutes. Other features include an 85dB horn, single button test/silence, an easy access battery drawer and dust cover. OptiPath 360 Technology: Exclusive patented technology provides 360 degrees of direct access to the smoke sensor. 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.
The smoke alarm shall be a BRK Model 3120B and shall provide at a minimum the following features and functions:

1. Two smoke sensing chambers - photoelectric and ionization.
2. Powered by 120V AC, 60Hz and have a monitored battery backup and a solid state piezo horn rated at 85dB at 10 ft. and shall be capable of self restoring.
3. A visual power-on indicator to confirm unit is receiving AC power or has switched to battery backup mode.
4. Two Latching features: Alarm Latch to easily identify initiating alarm after alarm condition has subsided. Low battery latch: to visually identify which unit is in low battery condition. Two Silence Features: Alarm Silence to temporarily silence nuisance alarms. Low Battery Silence to silence low battery chirp for up to 8 hours.
5. Two Locking features - tamper resistant locking pins that lock battery drawer and/or alarm to mounting bracket.
6. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C) and relative humidity between 10% and 95%.
7. 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.
8. 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.
9. The unit shall at a minimum meet the requirements of UL217, CSFM, NFPA 72 and the ICC.

**TECHNICAL SPECS**

- **Alarm Dimensions:** 5.0" dia x 2.0"H
- **Weight:** 9.5 oz
- **Operating Voltage:** 120V AC 60Hz with two 1.5V AA battery backup
- **Operating Current:** 0.07 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, 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 Sensors:** Photoelectric and Ionization
- **Indicator Lights/Sounds:**
  - **AC Power:** Constant Green LED
  - **DC Power:** Intermittent Green LED
  - **Local Alarm:** Red LED flashes rapidly
  - **Remote Alarm:** Red LED off
  - **Alarm Latch:** LED flashes red 2 sec on, 2 sec off after local alarm stops
  - **Low Battery Latch:** LED flashes green 2 sec on, 2 sec off
- **Listing:** Listed to UL217 Standard

**SHIPPING SPECS:**

- **Individual Carton Dimensions:** 5.13"L x 2.38"W x 5.13"H
- **Weight:** 0.73 lbs.
- **Cube:** 0.04 ft3
- **UPC:** 0 29054 00710 0

- **Master Carton Dimensions:** 10.75"L x 7.88"W x 11.06"H
- **Master Pack:** 12
- **Weight:** 9.3 lbs.
- **Cube:** 0.54 ft3
- **I2of5:** 200 29054 00710 4

**Pallet Information**

- **Cases per Layer:** 22
- **Number of Layers:** 4
- **Cases per Pallet:** 88
- **Units per pallet:** 1,056
- **Cube:** 54.0 ft3
- **Weight:** 879 lbs.

**BATTERY DRAWER LOCK**

Remove Pin from Mounting Bracket

Close Door. Insert Pin in Holes through alarm and Battery Drawer

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