

CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, Commissioner

MEA 259-03-E

Report of Material and Equipment Acceptance Division

Manufacturer – Electronica BRK De Mexico DeCV, Ave Fernando Borreguero Y Lopez Mateos Juarez, Chihuahua, Mexico.

Trade name – First Alert and BRK Electronics.

Product – Single and Multiple Station Smoke Alarms.

Pertinent Code Sections – Article 6, Section 27-968 through 27-981.

Tests – ANSI/UL 217.

Laboratory – Underwriters Laboratories, Inc.

Test Reports – UL File S1208, Vols. 14/15

Description - First Alert Models SA4121B, SA4120B, SA4120. BRK Models 4120SB, 4120B, 4120, and SC6120B.

Single and multiple station smoke alarms, 120 V ac operated with battery back-up, ionization type, Models 4120B, 4120SB, SA4120B, SA4121B, and 8120BL.

Single and multiple station smoke alarm, 120 V ac operated, ionization type, Model 4120, SA4120.

General Character:

Model 4120SB is similar to Model 4120B except that Model 4120SB employs a silence feature. Models 4120B and 4120SB are sold under the BRK trade name.

Model SA4120B is identical to Model 4120B except for tradename (First Alert) and collateral (nameplate, point-of-sale packaging, and user's manual). Model SA4121B is identical to Model 4120SB except for tradename (First Alert) and collateral (nameplate, point-of-sale packaging, and user's manual).

Sensitivity – It is intended that alarms will be factory adjusted and sealed and will operate to produce a smoke alarm signal when sufficient smoke is present in the detection chamber. The sensitivity production limits are between the values indicated in Table I.

The Model SA4120 (First Alert) is identical to the Model 4120 (BRK) except for tradename.

Batteries – The following batteries may be used with the battery back-up models:

Eveready Models 522 (Energizer), 1222, 216
Duracell Models MN1604, MX1604
Gold Peak Models 1604P, 1604S
Rayovac Model 1604, D1604
Ultralife U9VL-J

Single and multiple station 120 V ac operated with battery back up combination ionization smoke and tin oxide carbon monoxide (CO) alarm, Model SC6120B.

The product covered by this report is intended to detect an abnormal amount of smoke density and/or carbon monoxide (CO) in the area in which it is installed, and to actuate a condition specific audible alarm signal. This product is also designed to employ a mandatory smoke override feature as the primary signal should both conditions exist simultaneously. This product employs an alarm silence or hush feature in the event that a transient condition exists. A low battery silence feature is provided and will mute the low battery signal for up to 8 hours if AC power is present. Also, a latching alarm indicator is provided to help identify the initiating alarm even after the alarm condition has subsided. Each combination smoke and CO alarm operates on 120 V ac or a secondary 9 V dc battery supply. The combination smoke and CO alarm is comprised of jumpers, capacitors, transistors, resistors, integrated circuits, a thermistor, a voltage regulator, a crystal resonator, a piezo electric horn, a tin oxide CO sensor, a dual sensing ionization chamber, diodes including general purpose, and general visual signaling LED (s). All components board (PCB) or printed wiring board (PWB), and the assembly is then housed inside an enclosure having an opening to the outside air.

Sensitivity – It is intended that all alarms be factory adjusted and sealed to operate and produce a condition specific alarm signal when sufficient smoke or CO is present in either the dual ionization smoke chamber or tin oxide CO detection chamber respectively. The sensitivity production limits for the smoke shall be between the values indicated within Table I. The sensitivity production limits for CO shall be between the time designations as identified within App. D (CZHF) of this procedure.

Batteries – The following batteries may be used with the BRK Electronics Model SC6120B:

Eveready Models 522
Duracell Models MN1604, MX1604
Ultralife U9VL-J

Pursuant to the “Promulgation of the Rules relating to the Material and Equipment Application Procedures” dated November 5, 1992. The Bureau of Fire Prevention has no objections letter dated September 16, 2003, F.P. Index 0308043.

Recommendation – All uses, configurations, arrangements and functions, application and installations shall comply with the provisions of New York City Buildings Code, specifically Subchapter 17 and Reference Standard 17-3. Further, the installation shall be in accordance with the manufacturer’s recommendations, NFPA 72 and UL Standard 217.

All shipments and deliveries of such equipment shall be provided with a metal tag, or equivalent, certifying that the equipment is equivalent those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance

October 16, 2003

Examined by

