

# Intelligent Bases

**B501(A), B200SR(A), B210LP(A),  
B224RB(A), B224BI(A),  
Mounting Kits, and Accessories**



**Addressable Devices**

## General

Intelligent mounting bases and kits provide a variety of ways to install Fire•Lite detectors in any application. Intelligent detectors can be mounted in either flanged or flangeless bases depending on junction box selection (*see Junction Box Selection Guide*). Across this product line, detectors plug in easily to the base with SEMS screws; and models employ various 12 to 24 AWG wire ranges.

**Relay, isolator, and sounder bases** can be used to meet local code requirements. Relay bases provide one Form-C contact relay for control of auxiliary functions such as door closure and elevator recall. Isolator bases allow loops to continue to operate under fault conditions and automatically restore when the fault is removed. Sounder bases are available in temporal and non-temporal pattern versions depending on whether the signal is to be used for evacuation purposes.

## Specifications

### Diameter:

- B501: 4.1" (104 mm).
- B224BI, B224RB, B210LP: 6.1" (155 mm).
- B200SR: 6.875" (17.46 cm).

### Wire gauge:

- B224BI, B224RB: 14 to 24 AWG.
- B210LP, B501, B200SR: 12 to 24 AWG.

### Temperature range:

- B224BI, B224RB, B200SR: 32°F to 120°F (0°C to 49°C).
- B210LP, B501: -4°F to 150°F (-20°C to 66°C).

**Humidity range:** 10% to 93% RH, non-condensing.

**System temperature and humidity ranges:** This system meets NFPA requirements for operation at 0°C to 49°C (32°F to 120°F); and at a relative humidity (noncondensing) of 85% at 30°C (86°F) per NFPA, and 93% ± 2% at 32°C ± 2°C (89.6°F ± 1.1°F) per ULC. However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and all peripherals be installed in an environment with a nominal room temperature of 15°C to 27°C (60°F to 80°F).

## Electrical Ratings

### FOR B200SR:

**External supply voltage:** 16 to 33 VDC (VFWR)

**Standby current:** 500 µA maximum.

**Alarm current:** 35 mA maximum

**SLC operating voltage:** 15 to 32 VDC.

**SLC standby current:** 300 µA.

**Sound output:** Greater than 85 dBA minimum; measured in a UL reverberant room at 10 feet, 24 Volts (continuous tone).



Flangeless Mounting Base  
B501(A)



Flanged Mounting Base  
B210LP(A)



Sounder Base  
B200SR(A)



Relay Base  
B224RB(A)

### FOR B224RB, B224BI:

**Operating voltage:** 15 to 32 VDC (powered by SLC).

**Standby ratings:** <500 µA maximum @ 24 VDC.

**Set time (B224RB only):** short delay 55 to 90 msec; long delay 6 to 9 seconds.

**Reset time (B224RB only):** 20 msec maximum.

**Relay characteristics (B224RB only):** two-coil latching relay; one Form-C contact; ratings (UL/CSA): 0.9 A @ 125 VAC, 0.9 A @ 110 VDC, and 3.0 A @ 30 VDC.

## Product Line Information

### INTELLIGENT BASES

**B501:** Flangeless mounting base.

**B501A:** Flangeless mounting base, ULC Listed.

**B501BP:** Bulk pack of B501 (10).

**B210LP:** Flanged mounting base.

**B210LPA:** Flanged mounting base, ULC listed

**B210LPBP:** Bulk pack of B210LP (10).

**B200SR:** Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone.

**B200SRA:** Same as B200SR with ULC-listing.

**B224RB:** Relay base.

**B224RBA:** Relay base, ULC Listed.

**B224BI:** Isolator base.

**B224BIA:** Isolator base, ULC Listed.

### MOUNTING KITS AND ACCESSORIES

**SMB600:** Surface mounting kit, flanged.

**F110:** Retrofit flange for converting high-profile bases to low-profile.

**F110BP:** Bulk pack of F110 (10).

**F210:** Accessory flange ring for B210LP(A) base (new design). 6-inch diameter.

**F210BP:** Bulk pack of F210 (10).

**RA100Z:** Remote LED annunciator.

**RA100ZA:** Remote LED annunciator, ULC Listed.

**M02-04-00:** Detector test magnet.

**M02-09-00:** Test magnet with telescoping handle.

**XR2B:** Detector removal tool for current heads (*T55-127-010 included*).

**XR2:** Detector Remove Tool for use with low profile detector heads, and .

**XP-4:** Extension pole for XR2/B (*5 to 15 ft/1.524 to 4.572 m*).

**T55-127-010:** Detector removal head.

**BCK-200B:** Black detector kit, package of 10 (for use with photo and ion detectors).

**WCK-200B:** White detector kit, package of 10 (for use with photo and ion detectors).

## Agency Listings and Approvals

The listings and approvals below apply to intelligent bases as noted. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S911
- **ULC Listed:** S911
- **FM Approved**
- **MEA:** 22-95-E, 205-94-E Vol. 2; 257-06-E
- **CSFM:** 7300-0075:0192, 7300-1653:0109; 7300-1653:0126, 7300-1653:0213

## Junction Box Selection Guide

Base Models	Single Gang	3.5" Oct.	4.0" Oct.	4.0" Sq.	4.0" Sq. with 3.0" mud ring	50 mm	60 mm	70 mm	75 mm
B200SR	Yes	Yes	Yes	Yes	Yes	No	No	No	No
B501	No	Yes	No	No	Yes	Yes	Yes	Yes	No
B210LP	Yes	Yes	Yes	Yes	Yes	No	No	No	No
B224RB	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
B224BI	No	Yes	Yes	Yes	No	No	No	Yes	Yes

**NOTE:** Box depth contingent on base and wire size.  
Refer to National Electric Code or applicable local codes for appropriate recommendations.

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For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.  
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