200 SERIES
Mounting Bases

Features

- Easy plug-in of detector to base

- SEMS screws, 12-24 AWG (14-24 for B224RB and B224BI)

- Multiple accessories for mounting flexibility

- UL 464 and UL 864 Compliant Sounder Bases

Description

Secutron's mounting bases and kits provide a variety of ways to install detectors in any application. The MRI-200 Series detectors can be mounted in either flanged or flangeless bases depending on junction box selection (see junction box selection guide).

Features

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 nontemporal pattern versions depending on whether the signal is to be used for evacuation purposes.

Mounting

The recessed mounting kit provides the most aesthetically pleasing installation. Surface mounting boxes are available when flush mounting isn't possible. Whatever the installation challenge, Secutron has the solution.

Physical Specifications

Diameter	
B501	4.1" (104 mm)
B210LP, B224RB, B224BI	6.1" (155 mm)
B501BH, B501BHT,B501BH-2, B501BHT	6.0" (152 mm)
Wire Gauge	
B224BI, B224RB	22 to 14 AWG
B501, B210LP, B501BH, B501BHT, B501BH-2, B501BHT-2	24 to12 AWG
Temperature Range	
B224BI, B224RB, B501BH, B501BHT, B501BH-2, B501BHT	32°F to 120°F (0°C to 49° C)
B501, B210LP	32°F to 150°F (0°C to 66° C)
Humidity Range	
10% to 93% RH non-condensing	

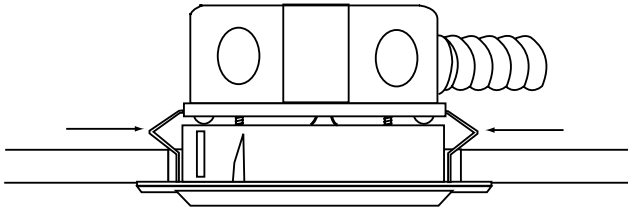Note: Refer to ordering information for agency listing details.

Issue 2   **SECUTRON INC.**   Page 1 of 2
Canada 25 Interchange Way, Vaughan (Toronto), Ontario L4K 5W3 Telephone: (905) 695-3545 Fax: (905) 660-4113 • **Web Page:** www.secutron.com
U.S.A. 4575 Witmer Industrial Estates, Niagara Falls, NY 14305 Telephone: (888) 695-3545 Fax: (888) 660-4113 • **E-mail:** mail@secutron.com
Catalog Number 4001 • Not to be used for installation purposes.

Electrical Specifications

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 sec

Reset Time (B224RB only)
20 msec max.

Relay Characteristics (B224RB only)
2 coil latching relay 1 Form C contact UL/CSA Rating: 0.9 A @ 125 VAC 0.9 A @ 110 VDC 3 A @ 30 VDC

B501BH / B501BHT / B501BH-2 / B501BHT-2

External Supply Voltage
17 to 32 VDC

Standby Current
1.0 mA max.

Set Time
B501BH / B501BHT: 6 to 15 sec B501BH-2 / B501BHT-2: 0.75 to 5.7 sec

Maximum Ripple Voltage
10% of supply voltage

Sound Output
Greater than 90 dBA measured in anechoic room at 10 feet, 24 volts. 85 dBA minimum in UL reverberant room

Alarm Current
15 mA max.

Start-up Capacitance
200 µF

Recessed Mounting Kit Product Overview

Used with B501, the RMK400 provides a simple installation solution in applications that demand a lower profile smoke detector.

Uses. Kit is suitable for use with 4" octagon, 50mm, and 60mm junction boxes connected to flexible conduit. Junction boxes are not included in kit.

- **Drywall or suspended ceiling**
- **Standard junction boxes**
- **Aesthetically pleasing**

200 Series Junction Box Selection Guide

Model	Single Gang	3.5" Oct.	4" Oct.	4" Sq.	4" Sq.*	50 mm	60 mm	70 mm	75 mm
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
B501BH / B501BH-2	No	No	No	Yes	No	No	No	No	No
B501BHT / B501BHT-2	No	No	No	Yes	No	No	No	No	No

*with 3.0 mud ring
Note: Box depth contingent on base and wire size. Refer to National Electrical Code or applicable local codes for appropriate recommendations.

Ordering Information

Model	Description	Agency Listing
B210LP*	Flanged Mounting Base	UL, ULC, FM, CSFM, MEA
B501*	Flangeless Mounting Base	UL, ULC, FM, CSFM, MEA
B224RB*	Relay Mounting Base, Form C Contact	UL, ULC, CSFM, MEA
B224BI*	Isolator Mounting Base	UL, ULC, FM, CSFM, MEA
B501BH*	Standard Sounder Base	UL, ULC, CSFM, MEA
B501BH-2	Standard Sounder Base, UL 864 9th edition compliant	UL, CSFM, MEA
B501BHT*	Temporal Tone Sounder Base	UL, ULC, CSFM
B501BHT-2	Temporal Tone Sounder Base, UL 864 9th edition compliant	UL, CSFM, MEA

Add suffix "A" for Canadian model.