

200 Series Mounting Base Options



200 Series Models

B501(A)	Flangeless Mounting Base
B210LP(A)	Flanged Mounting Base
B501BH(A)	Standard Sounder Base
B501BHT(A)	Temporal Tone Sounder Base
B501BH-2(A)	Standard Sounder Base, UL 864 9 th edition compliant
B501BHT-2(A)	Temporal Tone Sounder Base, UL 864 9 th edition compliant
B224RB(A)	Relay Base
B224BI(A)	Isolator Base
RMK400	Recessed Mounting Kit
SMK400	Surface Mounting Kit (flangeless)
SMB600	Surface Mounting Kit (flanged)

200 Series Accessories

F110	Retrofit flange for B501B/B524
RA400Z(A)	Remote LED Annunciator
M02-04-01	Detector Test Magnet
M02-09-00	Test Magnet with Telescoping handle
XR2B	Detector Removal Tool (T55-127-000 Included)
XP-4	Extension Pole for XR2B (5-15 ft.)
T55-127-000	Detector Removal Head
BCK-200B	Black Detector Kit

(A) suffix denotes ULC listed product



B501



B224RB



B210LP



SMK400



B501BH / B501BH-2



RMK400 Recessed Mounting Kit

200 Series Base Overview

Easy plug-in of detector to base

SEMS screws, 12-22 AWG

System Sensor mounting bases and kits provide a variety of ways to install detectors in any application. 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 non-temporal 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, System Sensor has the solution.

Base Specifications

Diameter

4.1" (104 mm): B501
 6.1" (155 mm): B210LP, B224RB, B224BI
 6.0" (152 mm): B501BH, B501BHT, B501BH-2, B501BHT-2

Wire Gauge

22-14 : B224BI, B224RB
 18-12 : B501, B210LP, B501BH, B501BHT, B501BH-2, B501BHT-2

Temperature Range

32°F to 120°F (0°C to 49°C)
 32°F to 150°F (0°C to 66°C); B501, B210LP

Humidity Range

10% to 93% RH non-condensing

B224RB/B224BI Electrical Ratings

Operating Voltage

15 to 32 VDC (powered by SLC)

Standby Ratings

<500 µA maximum @ 24 VDC

Set Time (relay base only)

Short Delay: 55 to 90 msec
 Long Delay: 6 to 9 sec

Reset Time (relay base only)

20 msec max.

Relay Characteristics (relay base 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 Electrical Ratings

External Supply Voltage

17 to 32 VDC

Standby Current

1.0 mA max.

Alarm Current

15 mA max.

Maximum Ripple Voltage

10% of supply voltage

Start-up Capacitance

200 µF

Set Time (this in color blue)

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

Sound Output

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

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 Electric Code or applicable local codes for appropriate recommendations.

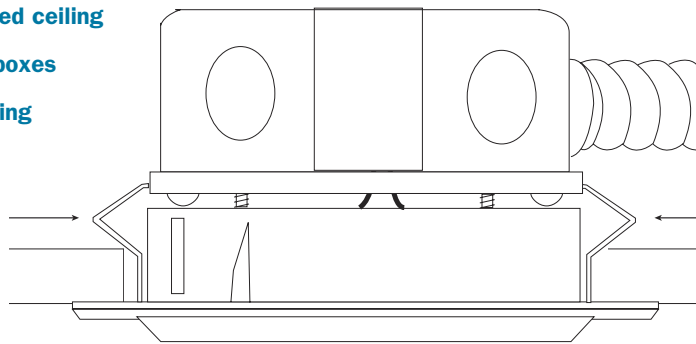
200 Series Base Agency Listings

Model	Listings
B501(A)	UL, ULC, FM, CSFM, MEA
B210LP(A)	UL, FM, CSFM, MEA, ULC
B501BH(A) and B501BH-2(A)	UL, ULC, CSFM, MEA
B501BHT(A) and B501BHT-2(A)	UL, ULC, CSFM
B224RB(A)	UL, ULC, CSFM, MEA
B224BI(A)	UL, ULC, CSFM, FM, MEA

(A) suffix denotes ULC listed product.

Recessed Mounting Kit Product Overview

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



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.

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