200 Series
Mounting Base Options

System Sensor mounting bases and kits provide a variety of ways to install detectors in any application.



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

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.

Agency Listings

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

* For ULC listed products, add "A" to the model number (e.g., B501A).

Specifications, 200 Series Bases

Physical Specifications	
Diameter	B501: 4.1 in (104 mm); B210LP, B224RB, B224BI: 6.1˝ (155 mm); B501BH, B501BHT, B501BH-2, B501BHT-2: 6.0 in (152 mm)
Wire Gauge	B224BI, B224RB: 24 to 14 AWG; B501, B210LP, B501BH, B501BHT, B501BH-2, B501BHT-2: 24 to 12 AWG
Temperature Range	32°F to 120°F (0°C to 49°C); B501, B210LP: –4°F to 150°F (–20°C to 66°C)
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 (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 Electrical Ratings	
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

200 Series Junction Box Selection Guide

Model	Single Gang	3.5 in Octagonal	4 in Octagonal	4 in Square	4 in Square*	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 in mud ring

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

Ordering Information, 200 Series Bases

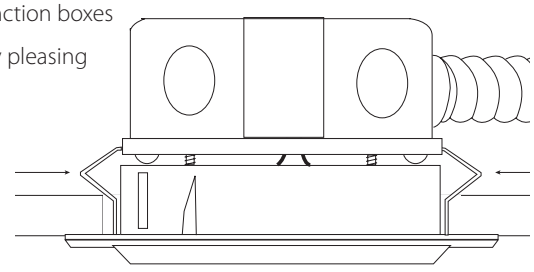
Model	Description
B501*	Flangeless Mounting Base
B210LP*	Flanged Mounting Base
B501BH*	Standard Sounder Base
B501BHT*	Temporal Tone Sounder Base
B501BH-2	Standard Sounder Base, UL 864 9th edition compliant
B501BHT-2	Temporal Tone Sounder Base, UL 864 9th edition compliant
B224RB*	Relay Base
B224BI*	Isolator Base
RMK400	Recessed Mounting Kit
SMK400	Surface Mounting Kit (flangeless)
SMB600	Surface Mounting Kit (flanged)
F110	Retrofit flange for B501B/B524
200 Series Accessories	
RA400Z* / RA100Z*	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 to 15 ft.)
T55-127-000	Detector Removal Head
BCK-200B	Black Detector Kit
WCK-200B	White Detector Kit

* Add "A" to model number for ULC listed product (e.g., B501A)

Recessed Mounting Kit Product Overview

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



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