SYSTEM SENSOR ®
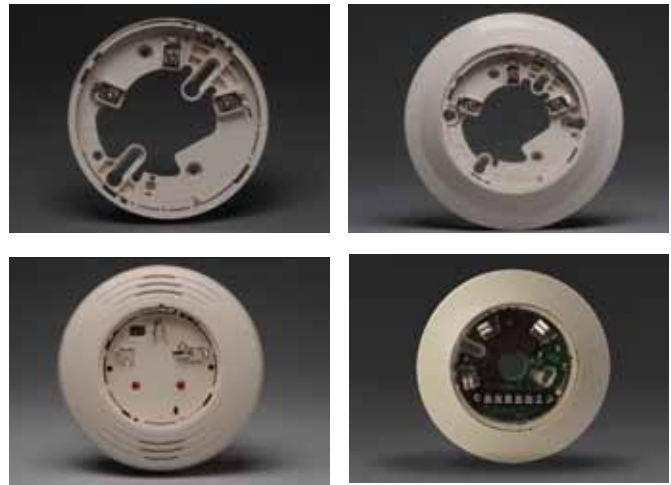

200 Series Mounting Base Options

System Sensor mounting bases and kits provide a variety of installation options for detectors in any application.

Features

• Bases enable quick and secure detector plug-in

• SEMS screws provide easy wiring connection

• Support for 12-24 AWG (14-24 for B224RB and B224BI) provides installation flexibility

• Multiple accessory options provide mounting flexibility

• Sounder bases are compliant with UL 464 and UL 864

To meet local code and application requirements, System Sensor offers relay, isolator, and sounder base options for 200 Series detectors. 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 a combination temporal 3 and continuous tone model or an addressable model (B200S) that can be activated by the fire alarm control panel based on the event.[†]

200 Series Bases provide a variety of mounting options to meet your installation challenges. Bases come in flanged or flangless versions for mounting to a variety of junction boxes. See the 200 Series Junction Box Selection Guide on the next page for junction box options. Surface mounting boxes are also available.

Agency Listings

Model	Listings
B501	UL, ULC,* FM, CSFM
B210LP	UL, ULC, FM, CSFM
B200S	UL, ULC, FM
B200SR	UL, ULC, CSFM
B224RB	UL, ULC, CSFM
B224BI	UL, ULC, FM, CSFM

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

[†]Consult your fire alarm control panel manufacturer for compatibility with the addressable model of the sounder base.

Specifications, 200 Series Bases

Physical Specifications	
Diameter	B501: 4.1" (104 mm); B210LP, B224RB, B224BI: 6.1" (155 mm); B200SR, B200S: 6.875" (175 mm)
Wire Gauge	B224BI, B224RB: 24 to 14 AWG; B200SR, B200S: 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		B200SR/B200S Electrical Ratings	
Operating Voltage	15 to 32 VDC (powered by SLC)	External Supply Voltage	16 to 33 VDC (VFWR)
Standby Ratings	<500 µA maximum @ 24 VDC	Standby Current	500 uA max.
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	Sound Output	Greater than 90 dBA measured in anechoic room at 10 feet, 24 volts. 85 dBA minimum in UL reverberant room
		Alarm Current	35 mA max.

200 Series Junction Box Selection Guide

Model	Single Gang	3.5" Octagonal	4" Octagonal	4" Square	4" 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	Yes	No	Yes	Yes	Yes
B224BI	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
B200SR/B200S	Yes	Yes	Yes	Yes	Yes	No	No	Yes	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.

Ordering Information, 200 Series Bases

Model	Description
B501*	4" Flangeless Mounting Base
B501BP*	4" Flangeless Mounting Base Bulk Pack
B210LP*	6" Flanged Mounting Base
B210LPBP*	6" Flanged Mounting Base Bulk Pack
B200SR*	Standard Sounder Base (Compatible with B501BH Series)
B200S*	Intelligent Addressable Sounder Base
B224RB*	Relay Base
B224BI*	Isolator Base
200 Series Accessories	
SMB600	Surface Mounting Kit (flanged)
F110	Accessory Flange Ring for 6" Base
F110BP	Accessory Flange Ring for 6" Base Bulk Pack
F210	Accessory New Smaller Flange Ring for 6" Base
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)

B200S Addressable Sounder Base Product Overview

When used with compatible fire alarm control panels, the B200S sounder base provides unmatched flexibility to configure the output to various events. When combined with System Sensor SpectrAlert® Advance notification appliances, the B200S can serve as a component of the general evacuation signaling, improving aesthetics and reducing system costs.

Features:

• Simple addressing scheme - base adopts the same address as attached sensor

• Synchronizable with SpectrAlert Advance notification appliances

• Four standard tone patterns at two selectable volumes

• Custom tone capability

• Support for Temporal-4 CO annunciation