200 Series Mounting Base Options
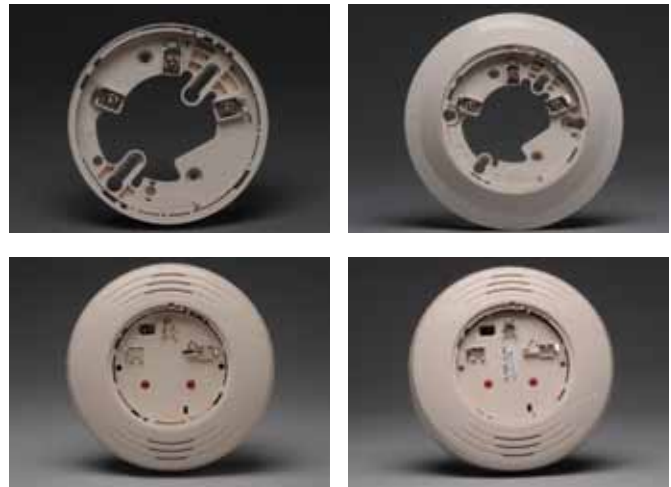
System Sensor mounting bases and kits provide a variety of installation options for detectors in any application.

Features

- Bases enable quick and secure detector plug-in
- SEMS screws provide easy wiring connection
- Support for 12-24 AWG provides installation flexibility
- Multiple accessory options provide mounting flexibility
- Sounder bases are ULC listed as an audible signal appliance

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 (B200SRA) or an addressable model (B200SA) 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
B501A	ULC, FM
B200SA	ULC, FM
B200SRA	ULC, FM
B210LPA	ULC, FM
B224RBA	ULC, FM
B224BIA	ULC, FM

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

Specifications – 200 Series Bases

Physical Specifications	
Diameter	B501A: 104 mm (4.1"); B210LPA: 155 mm (6.1"); B224BIA, B224RBA, B200SRA, B200SA: 175 mm (6.875")
Wire Gauge	B224BIA, B224RBA, B200SRA, B200SA, B210LPA, B501A: 24 to 12 AWG
Temperature Range	0°C to 49°C (32°F to 120°F); B501A, B210LPA: –20°C to 66°C (–4°F to 150°F)
Humidity Range	10% to 93% RH non-condensing

B224RBA/B224BIA Electrical Ratings		B200SRA/B200SA Electrical Ratings	
Operating Voltage	15 to 32 VDC (powered by SLC)	External Supply Voltage	16 to 33 VDC (VFWR)
Standby Current	170/450 μA max.	Standby Current	500 μA max.
Set Time (B224RBA only)	Short Delay: 60 to 100 msec Long Delay: 6 to 10 sec		
Reset Time (B224RBA only)	20 msec max.		
Relay Characteristics (B224RBA only)	2 coil latching relay 1 Form C contact UL/ULC Rating: 0.5 A @ 125 VAC 0.9 A @ 125 VDC 3 A @ 30 VDC	Sound Output	High Volume: Greater than 87 dBA, Low Volume: Greater than 85 dBA minimum measured in a ULC anechoic room at 10 feet, 24 Volts (in continuous tone)
		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
B501A	No	Yes	No	No	Yes	Yes	Yes	Yes	No
B200SRA/B200SA	Yes	Yes†	Yes	Yes	Yes†	No	No	Yes	No
B210LPA	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
B224RBA	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
B224BIA	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No

* with 3.0" mud ring
† B200SA is not compatitble with the 200 Series junction boxes
Note: Box depth contingent on base and wire size. Refer to National Code or applicable local codes for appropriate recommendations.

Ordering Information, 200 Series Bases

Model	Description
B501A	4" Flangeless Mounting Base
B200SRA	Standard Sounder Base (Compatible with B501BHA Series)
B200SA	Intelligent Addressable Sounder Base
B210LPA	6" Flanged Mounting Base
B224RBA	Relay Base
B224BIA	Isolator Base
200 Series Accessories	
SMB600	Surface Mounting Kit (flanged)
F110	Accessory Flange Ring for 6" Base
F210	Accessory New Smaller Flange Ring for 6" Base
RA100ZA	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

B200SA Addressable Sounder Base Product Overview

When used with compatible fire alarm control panels, the B200SA sounder base provides unmatched flexibility to configure the output to various events. When combined with System Sensor SpectrAlert® Advance notification appliances, the B200SA can serve as a component for 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
- Remote silence capability