FIRE CONTROL INSTRUMENTS
by Honeywell

Intelligent Bases

Description

Intelligent sensors can be mounted in either flanged or flangeless bases depending on the junction box selection (see Table 1 Junction Box Selection Guide). Across this product line, sensors plug-in easily to the base with SEMS screws; and models employ various 12 to 24 gauge wire ranges.

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 a door closure and an 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.

Intelligent bases provide a variety of mounting options to meet your installation challenges. Bases come in flanged or flangeless versions for mounting to a variety of junction boxes. Refer to Table 1 (Junction Box Selection Guide) for a list of the junction box options. The following bases can be mounted on the SMB600 surface mounting box.

- B210LPA relay base
- B224RBA relay base
- B224BIA isolator base

For additional information on the various bases, refer to the Specifications and Electrical Ratings on page two.

Bases, Mounting Kits, and Accessories



Figure 1 B501A Mounting Base



Figure 2 B224RBA Relay Base and B224BIA Isolator Base



Figure 3 B210LPA Relay Base



Figure 4 B200SRA Sounder Base

Features

- Bases employ 12 to 24 gauge wire ranges
- Offers the following three (3) types of bases:
  - Relay
  - Isolator
  - Sounder
- Relay, isolator and sounder bases meet local code requirements
- Relay bases provide one Form-C contact relay
- Isolator bases include data communications lines to operate under fault condition
- Sounder bases offer temporal and non temporal pattern versions
- Includes an installation mounting kit and accessories for several types of model options

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Specifications

	B501A	B210LPA	B224RBA/B224BIA	B200SRA
Diameter:	10.41 cm (4.1”)	15.5 cm (6.1”)	15.5 cm (6.1”)	17.46 cm (6.875”)
Wire Gauge:	12 to 18 gauge	14 to 24 gauge	14 to 24 gauge	12 to 28 gauge
Temperature Range:	0° C to 66° C (32° F to 150° F)	0° to 49° C (32° F to 120° F)	0° to 49° C (32° F to 120° F)	0° to 49° C (32° F to 120° F)
Humidity Range:	10% to 93% RH, non-condensing.			
System Temperature and Humidity Ranges:	This system meets the Canadian Electrical Code requirements for operation at 0°C to 49°C (32°F to 120°F); and at a relative humidity (non-condensing) of 85% at 30°C (86°F) per CEC, and 93% ± 2% at 32°C ± 2°C (89.6°F ± 1.1°F) per ULC®. However, the useful life of the system’s standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and all peripherals be installed in an environment with a nominal room temperature of 15°C to 27°C (60°F to 80°F).			

Electrical Ratings:	
For B224BIA and B224RBA:	
Operating Voltage:	15 to 32 VDC (powered by DCL)
Standby Ratings:	<500 µA maximum @ 24 VDC
Set Time:	(B224RBA only): short delay 55 to 90 msec; long delay 6 to 9 seconds
Reset Time:	(For B224RBA only); 20 m sec maximum
Relay Characteristics:	(For B224RBA only): two-coil latching relay; one Form-C contact; Ratings (ULC/CSA): 0.9 A @ 125 VAC, 0.9 A @ 110 VDC, and 3.0 A @ 30 VDC
For B200SRA:	
External Supply Voltage:	16 to 33 VDC (VFWR)
Standby Current:	<500 µA maximum @ 24 VDC
Alarm Current:	35 mA maximum
Maximum Ripple Voltage:	10% of supply voltage
Startup Capacitance:	200 µF
Set Time:	For B200SRA, 6 to 15 seconds
Sound Output:	Greater than 90 dBA measured in anechoic room at 3.048 m (10 feet), 24 volts. Greater than 85 dBA minimum-measured in a ULC reverberant room at 3.048 m (10 feet), 24 volts (in continuous tone).

Table 1 Junction Box Selection Guide

Base Models	Single Gang	8.89cm Oct.	10.16cm Oct.	10.16 cm Square	10.16cm Square wit 7.6” mud ring	50 mm	60 mm	70 mm	75 mm
B501A	NO	YES	NO	NO	YES	YES	YES	YES	YES
B200SRA	YES	YES	YES	YES	YES	NO	NO	YES	NO
B210LPA	YES	YES	YES	YES	YES	NO	NO	NO	NO
B224RBA	NO	YES	YES	YES	YES	NO	YES	YES	YES
B224BIA	NO	YES	YES	YES	YES	NO	YES	YES	YES

NOTE: Box depth contingent on base and wire size. Refer to the Canadian Electrical Code or applicable local codes for appropriate recommendations.

Ordering Information

Product Line		Mounting Kits and Accessories			
Part Number	Description	Part Number	Description	Part Number	Description
B501A	Flangeless mounting base	**SMB600**	Surface mounting kit, flanged	T55-127-010	Detector removal head
B200SRA	Standard sounder base	**F110A**	Retrofit flange for B210LPA	**BCK-200B**	Black detector kit.(Box of 10)
B210LPA	Flanged mounting base	**F210**	Accessory new smaller flange ring for B210LPA	WCK-2008	White detector kit (Box of 10)
B224RBA	Relay base	**M02-09-00**	Test Magnet w/Telescoping handle	**XR2B**	Sensor replacement tool
B224BIA	Isolator base	**RA100ZA**	Remote LED Annunciator	**XP-4**	Extension pole for XR2B 1.524 to 4.572 m/5 to 15 ft.

Note: The above models are ULC Listed.

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