

**SELECT SERIES
MOUNTING BASES AND ACCESSORIES**

Features

- Bases enable quick and secure detector plug-in
- SEMS screws provide easy wiring connection
- Support for 12-24 AWG provides installation flexibility
- Multiple base formats meet application requirements
- Standard white color with ivory options
- UL 268 compliant
- Mechanical locking feature restricts removal of attached sensor head

Specialty Base Features

- Pre-wired mounting plate simplifies installation
- Application driven feature sets
- Sounder bases both UL 268 and UL 464 compliant

Description

To meet local code and application requirements, Mircom offers **standard 4" and 6" bases**, as well as, specialty base designs including relay, isolator, sounder and low frequency sounder options for Select Series detectors.

The standard 4" and 6" bases offer a plug-in detector base intended for use in intelligent systems. The 4" base offers a compact design while the 6" base provides compatibility with a wider range of junction boxes.

See the Select Series Junction Box Selection Guide on the next page for junction box options.

The Select Series specialty bases support application driven requirements.

Relay bases (B224RB-WH/B224RB-IV) provide one form C contact relay for control of auxiliary functions, such as door closure and elevator recall. The relay can operate in two different modes (short and long delay). The activation time for the short delay is 60 ms to 100 ms, while the activation time for the long delay is 6 sec to 10 sec.

Isolator bases (B224BI-WH/B224BI-IV) allow the Signaling Line Circuit (SLC) loop to operate under fault conditions created from a short circuit preventing an entire communication loop from being disabled. The base isolates the section of the loop containing the short circuit from the remainder of the circuit and automatically restores when the fault is corrected.

The Select Series **sounder and low frequency sounder bases** are

designed for new and existing dwelling unit applications. They offer maximum flexibility in installation, configuration, and operation to meet or exceed UL 268 and UL 464 requirements. The Select Series low frequency sounder bases are designed to meet the NFPA 72 sleeping space requirement to produce a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent.

The B200SR sounder and LF sounder bases (B200SR-WH/B200SR-IV/B200SR-LF-WH/B200SR-LF-IV) are fully compatible with existing sounder base installations.

The Sounder bases adopt the same address as the detector, but use a unique device type on the loop. The Fire Alarm Control Panel (FACP) can use that address to command an individual or a group of sounders to activate. The command set from the FACP can be tailored to multiple event-driven tone outputs allowing selection of volume, tone, and group.

The sounder bases recognize the System Sensor synchronization protocol. This enables it to be used as a component of the general evacuation signal - along with other System Sensor AV appliances - when connected to a power supply or FACP output capable of generating the System Sensor synchronization pulses.



Physical Specifications

Model Color: White	Model Color: Ivory	Diameter
B501-WHITE	B501-IV	4.0" (10.2 cm)
B300-6	B300-6-IV	6.1" (155 mm)
B200SR-WH B200SR-LF-WH APB200-WH APB200-LF-WH	B200SR-IV B200SR-LF-IV APB-200-IV APB200-LF-IV	6.85" (17.4 cm)
B224BI-WH B224RB-WH	B224BI-IV B224RB-IV	6.85" (17.4 cm)
		Base Height (without sensor)
B501-WHITE	B501-IV	0.74" (18.8 mm)
B300-6	B300-6-IV	0.76" (19 mm)
B200SR-WH B200SR-LF-WH APB200-WH APB200-LF-W	B200SR-IV B200SR-LF-IV APB-200-IV APB200-LF-IV	1.6" (4.1 cm)
B224BI-WH B224RB-WH	B224BI-IV B224RB-IV	1.6" (4.1 cm)
		Weight
B501-WHITE	B501-IV	0.32 lb (145 gm)
B300-6 APB200-WH	B300-6-IV APB-200-IV	0.32 lb (145 gm)
B200SR-WH	B200SR-IV	0.50 lb (227 gm)
B200SR-LF-WH APB200-LF-WH	B200SR-LF-IV APB200-LF-IV	0.6 lb (272 gm)
B224BI-WH B224RB-WH	B224BI-IV B224RB-IV	0.50 lb (227 gm)
		Wire Gauge
B501-WHITE	B501-IV	18 AWG (0.823 mm ²) to 12 AWG (3.31 mm ²)
B300-6	B300-6-IV	18 AWG (0.823 mm ²) to 12 AWG (3.31 mm ²)
B200SR-WH B200SR-LF-WH APB200-WH APB200-LF-WH	B200SR-IV B200SR-LF-IV APB-200-IV APB200-LF-IV	14 AWG (2.08 mm ²) to 12 AWG (3.31 mm ²)
B224BI-WH B224RB-WH	B224BI-IV B224RB-IV	18 AWG (0.823 mm ²) to 12 AWG (3.31 mm ²)
Temperature Range		
Refer to applicable sensor Operating Temperature Range		
Temperature Range		
10% to 93% RH non-condensing		

Electrical Specifications

B501-WHITE, B501-IV			
Operating Voltage	15 to 32 VDC		
Standby Current	150 μ A		
B300-6, B300-6-IV			
Operating Voltage	15 to 32 VDC		
Standby Current	170 μ A max.		
B224BI-WH, B224BI-IV			
Operating Voltage	15 to 32 VDC		
Standby Current	450 μ A max		
Isolation Current	15 mA max		
B224RB-WH, B224RB-IV			
Operating Voltage	15 to 32 VDC		
Standby Current	170 μ A max.		
Set Time	Position 1, Short Delay: 60 to 100 ms Position 2, Long Delay: 6 to 10 sec		
Reset Time	20 ms max.		
Relay Characteristics	2 coil latching relay 1 Form C contact		
UL Rating:			
Current Rating	Maximum Voltage	Maximum Voltage	Application
2 A	25 VAC	PF = 0.35	Non-coded
3A	30 VDC	Resistive	Non-coded
2A	30 VDC	Resistive	Coded
0.46 A	30 VDC	(L/R = 20ms)	Non-coded
0.7 A	70.7 VAC	PF = 0.35	Non-coded
0.9A	125 VDC	Resistive	Non-coded
0.5 A	125 VDC	PF = 0.75	Non-coded
0.3 A	125 VDC	PF = 0.75	Non-coded
B200SR-WH, B200SR-IV			
External Supply Electrical Ratings:			
External Supply Voltage	16 to 33 VDC (VFWR)		
Standby Current	500 μ A maximum		
Alarm Current:	35 mA maximum		
SLC Electrical Ratings:			
SLC Operating Voltage:	15 to 32 VDC		
SLC Standby Current:	300 μ A maximum		
Sound Output	Greater than 85 dBA minimum measured in a UL reverberant room at 10 feet, 24 Volts (in continuous tone)		
B200SR-LF-WH, B200SR-LF-IV			
External Supply Electrical Ratings:			
External Supply Voltage	16 to 33 VDC (VFWR)		
Standby Current	1 mA maximum VDC		
Alarm Current:	65 mA maximum @ 33.0 VDC 90 mA maximum @ 24.0 VDC 125 mA maximum @16.0 VDC		
SLC Electrical Ratings:			
SLC Operating Voltage:	15 to 32 VDC		
SLC Standby Current:	Refer to applicable sensor specification.		
Sound Output	Greater than 85 dBA minimum measured in a UL reverberant room at 10 feet, 24 Volts (in continuous tone)		

APB200-WH, APB200-IV	
External Supply Electrical Ratings:	
External Supply Voltage	16 to 33 VDC (VFWR)
Standby Current	500 µA maximum
Alarm Current:	35 mA maximum (at high volume setting); 15mA maximum (at low volume setting)
SLC Electrical Ratings:	
SLC Operating Voltage:	15 to 32 VDC
SLC Standby Current:	300 µA maximum
High Volume	Greater than 85 dBA minimum measured in a UL reverberant room at 10 feet (3m), 24 Volts (in continuous tone)
Low Volume	Greater than 75 dBA minimum measured in a UL reverberant room at 10 feet (3m), 24 Volts (in continuous tone)
APB200-LF-WH, APB200-LF-IV	
External Supply Electrical Ratings:	
External Supply Voltage	16 to 33 VDC (VFWR)
Standby Current	1 mA maximum VDC
Alarm Current, High-volume setting:	70 mA maximum @ 33.0 VDC 90 mA maximum @ 24.0 VDC 140 mA maximum @16.0 VDC
Alarm Current, Low-volume setting:	15 mA maximum @ 33.0 VDC 20 mA maximum @ 24.0 VDC 25 mA maximum @16.0 VDC
SLC Electrical Ratings:	
SLC Operating Voltage:	15 to 32 VDC
SLC Standby Current:	300 µA maximum (base only, refer to applicable sensor specification)
Sound Output:	
High Volume	Greater than 85 dBA minimum measured in a UL reverberant room at 10 feet (3m), 24 Volts (in continuous tone)
Low Volume	Greater than 75 dBA minimum measured in a UL reverberant room at 10 feet (3m), 24 Volts (in continuous tone)

Junction Box Selection Guide

Model	Single Gang	Double Gang	3.5" Octagonal	4" Octagonal	4" Square	4" Square with mud ring*	50 mm	60 mm	70 mm	75 mm
B501-WHITE B501-IV	No	No	Yes	No	No	Yes	Yes	Yes	Yes	No
B300-6 B300-6-IV	Yes	No	Yes	Yes	Yes	Yes	No	No	No	No
B200SR-WH B200SR-IV B200SR-LF-WH B200SR-LF-IV APB200-WH APB-200-IV APB200-LF-WH APB200-LF-IV	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
B224BI-WH B224BI-IV	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
B224RB-WH B224RB-IV	Yes	Yes	Yes	Yes	Yes	Yes	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.

Ordering Information

Model	Description	Color
B501-WHITE	4" Flangeless mounting base - UL/ ULC	White
B501-IV	4" Flangeless mounting base - UL/ ULC	Ivory
B300-6	6" Flanged mounting base - UL	White
B300-6-IV	6" Flanged mounting base - UL	Ivory
B200SR-WH	Standard Sounder Base - UL	White
B200SR-IV	Standard Sounder Base - UL	Ivory
B200SR-LF-WH	Low-frequency Sounder Base - UL	White
B200SR-LF-IV	Low-frequency Sounder Base - UL	Ivory
APB200-WH	Intelligent Sounder Base - UL	White
APB200-IV	Intelligent Sounder Base - UL	Ivory
APB200-LF-WH	Intelligent Low-frequency Sounder Base - UL	White
APB200-LF-IV	Intelligent Low-frequency Sounder Base - UL	Ivory
B224BI-WH	Isolator Base - UL	White
B224BI-IV	Isolator Base - UL	Ivory
B224RB-WH	Relay Base - UL	White
B224RB-IV	Relay Base - UL	Ivory
Accessories		
CK300	Color Kit (includes cover and trim ring) - Pack of 10	White
CK300-IV	Color Kit (includes cover and trim ring) - Pack of 10	Ivory
CK300-BL	Color Kit (includes cover and trim ring) - Pack of 10	Black
CK300-IR	PTIR Color Kit (includes cover and trim ring) - Pack of 10	White
CK300-IR-IV	PTIR Color Kit (includes cover and trim ring) - Pack of 10	Ivory
CK300-IR-BL	PTIR Color Kit (includes cover and trim ring) - Pack of 10	Black
TR300	Trim Ring	White
TR300-IR	Trim Ring	Ivory
RA100Z	Remote LED Annunciator - UL	Ivory