



by Honeywell

# Intelligent Bases

## Description

The Intelligent FlashScan® and CLIP™ mounting bases and kits provide a variety of ways to install Gamewell-FCI detectors in any application. Intelligent detectors can be mounted in either flanged or flangeless bases depending on the junction box selection (see Junction Box Selection Guide) or plastic rings. Across this product line, you can easily plug-in the detectors to the base using SEMS screws; and the models employ various 12 to 24 AWG wire ranges.

Relay, isolator, and sounder bases can be used to meet local code requirements. Relay bases provide one Form-C contact relay for the 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.

The Intelligent Bases provide a variety of mounting options to meet your installation challenges. The bases come in flanged or flangeless versions for mounting to a variety of junction boxes. See Table 1 for the junction box options. The B210LP, B224RB relay base, and B224BI isolator base can be mounted on the SMB600 surface mounting box.

## Specifications

### System Temperature and Humidity Ranges:

This system meets the NFPA 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 NFPA, 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).

### Temperature Range:

For B501, B224RB, B224BI,  
B210LP, B200S, B200SR

Humidity Range: 32°F to 120°F (0°C to 49° C)  
10% to 93% RH,  
non-condensing

### Wire Gauge:

For B224BI, B224RB: 14 to 24 AWG

For B200S: 12 to 24 AWG

For B200SR: 12 to 24 AWG

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## B501, B224RB, B224BI, B210LP, B200S and B200SR Mounting Kits, and Accessories



Figure 1 B501 Mounting Base



Figure 2 B224RB Relay Base and  
B224BI Isolator Bases



Figure 3 B210LP Mounting Base



Figure 4 B200S/SR 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.

SIGNALING



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GAMEWELL-FCI

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## Electrical Ratings

### For B224RB, B224BI:

**Operating Voltage:** 15 to 32 VDC (powered by SLC)

**Standby Ratings:** <500  $\mu$ A maximum @ 24 VDC

**Set Time** Short delay: 55-90 mseconds

**(B224RB only):** Long delay: 6 to 9 seconds

**Reset Time**

**(B224RB only):** 20 mseconds maximum

**Relay**

**Characteristics**

**(B224RB only):** Two-coil Latching Relay  
One Form-C Contact

**Ratings (UL/CSA):** 0.9 A @ 125 VAC (inductive)

0.9 A @ 110 VDC (inductive)

3.0 A @ 30 VDC (resistive)

### For B200S Specifications:

#### External Supply

**Voltage:** 16 to 33 VDC (VFWR)

**Standby Current:** 500  $\mu$ A maximum

**Alarm Current:** 35 mA maximum (high volume)

15 mA maximum (low volume)

#### SLC Operating

**Voltage:** 15 to 32 VDC

#### SLC Standby

**Current:** 300  $\mu$ A maximum

#### For B200S

**Sound Output:** Greater than 90 dBA measured in anechoic room at 10 ft. (3.048 m), 24 volts.  
Greater than 85 dBA minimum-measured in a UL<sup>®</sup> reverberant room at 10ft. (3.048 m) 24 volts (in continuous tone).

### B200S Description

The B200S sounder base is capable of producing a variety of tone patterns, including the distinctive three-pulse temporal pattern (ANSI Temporal 3) fire alarm signal now required by NFPA 72 for commercial and residential applications. The available tones are Continuous, ANSI Temporal 3, ANSI Temporal 4, and March Time. In addition, some fire alarm panels will offer the option to command a custom tone pattern.

### For B200SR Specifications:

#### External Supply

**Voltage:** 16 to 33 VDC (VFWR)

**Standby Current:** <500  $\mu$ A maximum @ 24 VDC

**Alarm Current:** 35 mA maximum

#### Maximum Ripple

**Voltage:** 10% of supply voltage

#### Startup

**Capacitance:** 200  $\mu$ F

**For B200SR:** 6 to 15 seconds

**For B200SR:** 0.75 to 5.7 seconds

**Sound Output:** Greater than 90 dBA measured in anechoic room at 10 feet (3.048 m), 24 volts.  
85 dBA minimum in UL reverberant room.

### B200SR Description

The B200SR sounder base is capable of producing either the distinctive three-pulse temporal pattern (ANSI Temporal 3) fire alarm signal now required by NFPA 72 for commercial and residential applications or it can produce a continuous tone. To produce a continuous tone, remove the included jumper from the device. Additionally, the B200SR is designed to be compatible with existing installations that use the B501BH-Series sounder bases.

## Ordering Information

### Intelligent Bases

Part Number	Description
<b>B501</b>	Flangeless mounting base
<b>Dimensions:</b>	4.1" (10.41 cm) diameter
<b>B501BP</b>	Flangeless mounting base bulk pack
<b>Dimensions:</b>	4.1" (10.41 cm) diameter
<b>B224BI</b>	Isolator base
<b>Dimensions:</b>	6.1" (15.5 cm) diameter
<b>B224RB</b>	Relay base
<b>Dimensions:</b>	6.1" (15.5 cm) diameter
<b>B210LP</b>	Flanged mounting base
<b>Dimensions:</b>	6.1" (15.5 cm) diameter
<b>B210LPBP</b>	Flanged mounting base bulk pack
<b>Dimensions:</b>	6.1" (15.5 cm) diameter
<b>B200S</b>	Intelligent sensor sounder base
<b>Dimensions:</b>	6.875" diameter x 2.0" height (less sensor) (17.5 diameter x 5.08 H cm) (less sensor)
<b>B200SR</b>	Standard sounder base, UL Standard 864 9th Edition compliant, ULC Listed.
<b>Dimensions:</b>	6.875" diameter x 2.0" height (less sensor) (17.5 diameter x 5.08 H cm) (less sensor)

### Mounting Kits and Accessories

<b>SMB600</b>	Surface mounting kit, flanged.
<b>F110</b>	Accessory retrofit flange ring for B210LP.
<b>F110BP</b>	Accessory retrofit flange ring for the B210LPBP bulk pack of 15.
<b>F210</b>	Accessory with a new smaller flange ring for the B210LP.
<b>M02-04-01</b>	Detector test magnet.
<b>M02-09-00</b>	Test magnet with telescoping handle.
<b>XR2B</b>	Detector removal tool (T55-127-000 included).
<b>XP-4</b>	Extension pole for XR2B (5 to 15 ft/1.524 to 4.572 m)
<b>T55-127-000</b>	Detector removal head.
<b>BCK-200B</b>	Black detector kit.
<b>WCK-200B</b>	White detector kit.

#### GAMEWELL-FCI

**Table 1: Junction Box Selection Guide**

	<b>Single-Gang</b>	<b>3.5"</b> Octagonal	<b>4.0"</b> Octagonal	<b>4.0"</b> Square	<b>4.0" Square with</b> <b>3.0" mud ring</b>	<b>50 mm</b>	<b>60 mm</b>	<b>70 mm</b>	<b>75 mm</b>
<b>B501</b>	No	Yes	No	No	Yes	Yes	Yes	Yes	No
<b>B210LP</b>	Yes	Yes	Yes	Yes	Yes	No	No	No	No
<b>B224BI</b>	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
<b>B224RB</b>	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
<b>B200S</b>	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
<b>B200SR</b>	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No

**NOTE:** The box depth is contingent on the base and the wire size.

For information on applicable local codes for appropriate recommendation, refer to the National Electrical Code.