Addressable Devices

Velociti® Series B200S-LF

Addressable 520 Hz Low Frequency Sounder Base

General

The Gamewell-FCI, B200S-LF sounder base sets a new standard for performance, installation and aesthetics. The B200S-LF low frequency sounder base is designed to comply with the NFPA 72 sleeping space requirement to produce a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent. Studies show that a lower frequency, centered around 520 Hz, is the ideal frequency to awaken sleeping occupants, even those occupants with mild to severe hearing loss. The B200S-LF supports only the Velociti® protocol. In addition, the B200S-LF offers maximum flexibility in installation, configuration and operation to comply or exceed the UL® Standards 268 and 464 requirements.

The sounder base "listens in" to the communication between the sensor head and the fire alarm control panel to use the same address as the detector, but uses a unique device type on the loop. The FACP can then use that same address to command an individual sounder or a group of sounders to activate. You can set the command from the panel, so that it is set to the specific event, allowing the selection of volume, tone, group or custom tone patterns.



B200S-LF

Installation

The sounder base offers the following installation features:

- Pre-wired mounting plate-fits various junction box sizes.
- The housing locks to a mounting plate with two retaining screws to prevent tamper resistance.

Ordering Information

B200S-LF-WH: Low Frequency Intelligent Programmable Sounder Base, bright white

B200S-LF-IV: Ivory, Low Frequency Intelligent Programmable Sounder Base, ivory

Note 1: The B200S-LF-WH and B200S-LF-IV produce a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent. The bases are designed to comply with the NFPA 72 sleeping space requirement.

Note 2: The B200S-LF-WH and B200S-LF-IV sounder bases are compatible with the E3 Series, S3 Series or GWF-7075 fire alarm control panels.

FEATURES & BENEFITS

- Complies with UL® Standard 464 for 520 Hz. low frequency
- Complies with UL Standard 268
- Provides 520 Hz +/- 10% square wave tone
- Produces multiple event-driven tone outputs
- Offers a mechanical locking feature that prevents the removal of an attached sensor head
- Built-in supervision (no EOL relays required)
- Supports Continuous, ANSI Temporal 3, ANSI Temporal 4, and March Time tones
- Offers a programming option to control and activate the sounder base independently
- Broadcasts over two volume levels(75 or 85dBA)
- Includes a pre-wire mounting plate that fits various junction box sizes
- Programs the addressability for maximum configuration flexibility
- When the B200S-LF is connected to the NAC circuit, it can be synchronized with other System Sensor® notification devices
- Uses a mechanical locking feature that prevents the removal of the attached sensor head
- Employs coded patterns that may be optionally synchronized over the SLC and promptly changed

Velociti® Series B200S-LF Technical Specifications

SYSTEMS

Physical Specifications:

Base Diameter: 6.875 1/2 (17.46 cm)

Base Height: 2.0½ (5.08 cm) less sensor

Shipping Weight: 0.50 lb. (227 gm)

Temperatures:

Operating Temperature Range: For the applicable sensor Operating Temperature Range, refer to the Base/Sensor Cross Reference Chart at www.systemsensor.com

Operating Humidity Range: 10% to 93% relative humidity (non-condensing)

Electrical Specifications:

External Supply Voltage: 16 to 33 VDC (VFWR)

External Standby Current: 500 uA maximum

Alarm Current:

High Volume Setting: 70 mA max. @ 33.0 VDC
90 mA max. @ 24.0 VDC
140 mA max. @ 16.0 VDC

Low Volume Setting: 15 mA max. @ 33.0 VDC
20 mA max. @ 24.0 VDC
25 mA max. @ 16.0 VDC

SLC Operating Voltage: 15 to 32 VDC

SLC Standby Current: 300 uA maximum (base only)

Sound Output:

High Volume: Greater than 85 dBA minimum measured in a UL reverberant room at 10 ft. 24 Volts (in continuous tone).

Low Volume: Greater than 75 dBA minimum measured in a UL reverberant room at 10 ft. 24 Volts (in continuous tone)

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). 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 its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

STANDARDS

The Velociti® Series, B200S-LF is designed to comply with the following standards:

UL Standards: UL 268
UL 464

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

UL: S1911

CSFM: 7300-1653:0238

ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information

Learn more about Gamewell-FCI's Velociti® Series B200S-LF and other products available by visiting www.Gamewell-FCI.com

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