# B200S/B200S-LF Intelligent Sounder Bases

*System Sensor B200S series sounder bases set a new standard for performance, installation ease, and aesthetics.*

B200S-LF B200S

## B200S Series Features

- Addressability for maximum configuration flexibility
- Two volume levels (75 or 85 dBA)
- Multiple event-driven tone outputs
- Supports Continuous, ANSI Temporal 3, ANSI Temporal 4, and March Time tones
- Custom tone capability with some FACP models
- Ability to synchronize with other System Sensor notification devices
- UL 268 and UL 464 compliant
- Pre-wire mounting plate fits various junction box sizes
- Mechanical locking feature prevents removal of attached sensor head
- Additional terminal connections on Canadian model (B200SA) enable silence feature
- 520 Hz +/– 10% square wave tone (B200S-LF)

## Agency Listings

UL LISTED S911

FM APPROVED 3035027

B200S: 7135-1653:0213
B200S-LF: 7300-1653:0238

**The B200S** sounder base series is designed for new and existing dwelling unit applications. It offers maximum flexibility in installation, configuration, and operation to meet or exceed UL 268 and UL 464 requirements.

The sounder base "listens in" to the communication between the attached sensor head and the fire alarm control panel (FACP) to adopt the same address as the detector, but as a unique device type on the loop. The FACP can then use that address to command an individual sounder — or a group of sounders — to activate. The command set from the panel can be tailored to the specific event, allowing selection of volume, tone, and group. In addition, some FACPs will enable custom tone patterns.†

The B200S series 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 horns, horn strobes, and chimes — when connected to a power supply or FACP output capable of generating the System Sensor synchronization pulses.

The B200S series offers several key advantages. The sounder base employs a separate mounting plate that installs on various junction box sizes to eliminate unsightly surface-mount boxes. The mounting plate enables pre-wiring of all connections to speed and simplify installation. The housing also locks with the mounting plate using two retaining screws, for added tamper resistance.

**The B200S-LF** low frequency sounder base is 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. Studies show that a lower frequency, centered around 520 Hz, is the most ideal to awaken sleeping occupants, even those with mild to severe hearing loss.

†Refer to the appropriate FACP manual for more information.

| Physical Specifications | |
|---|---|
| **Base Diameter** | 6.875˝ (17.46 cm) |
| **Base Height** | 2.0˝ (5.08 cm) less sensor |
| **Shipping Weight** | **B200S**: 0.50 lb. (227 gm); **B200S-LF**: 0.60 lb. (272 gm) |
| **Operating Temperature Range** | Refer to applicable sensor Operating Temperature Range using the Base/Sensor Cross Reference Chart at systemsensor.com |
| **Operating Humidity Range** | 10% to 93% relative humidity (non-condensing) |
| **Electrical Specifications: B200S** | |
| **External Supply Voltage** | 16 to 33 VDC (VFWR) |
| **External Supply Standby Current** | 500 µA maximum |
| **Alarm Current** | 35 mA maximum at high-volume setting; 15 mA maximum at low-volume setting |
| **SLC Operating Voltage** | 15 to 32 VDC |
| **SLC Standby Current** | 300 µA maximum (base only, refer to applicable sensor specification) |
| **Electrical Specifications: B200S-LF** | |
| **External Supply Voltage** | 16 to 33 VDC (VFWR) |
| **External Supply Standby Current** | 550 µA maximum |
| **Alarm Current** | High volume setting: 70 mA maximum @ 33.0 VDC<br>90 mA maximum @ 24.0 VDC<br>140 mA maximum @16.0 VDC<br>Low volume setting: 15 mA maximum @ 33.0 VDC<br>20 mA maximum @ 24.0 VDC<br>25 mA maximum @ 16.0 VDC |
| **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 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) |

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