



ASB-6

ANALOG SOUNDER DETECTOR BASE



P/N 99232



Features

- Integrated Sounder in Base
- 75 dB (UL 464 listed)
- Sounder independent of sensor, allows for a single station, grouped or all-call
- May be mapped to any device connected to the Control Panel
- Maximum standby current 250 μ A
- Maximum alarm current 100 mA (aux power)
- For JFS-A Series control panels or JFS-IP Series control panels using Nohmi protocol

Description

The Addressable Sounder Base 6" (ASB-6) is a sounder base that may be utilized in a variety of applications. The base has a locking feature for the sensor that may be used or removed in the field. Once the head is removed, the sounder is accessible in the bottom of the unit.

The base has an independent sounder that can be programmed as a single station, zone or all-call sounder. The sounder produces a minimum of 75 dB at 10 feet. The ASB-6 passes through the sound pattern sent to the sounder, therefore it may reproduce in any pattern the power supply provides.

The panel will support any combination of sensors or modules on the SLC. The ASB-6 occupies one address on the loop. Once activated the sounder will also follow the input from the power source and de-activate accordingly.

Detector Base Mounting

ASB-6 should be mounted directly on the electrical box. The mounting holes are configured for a single gang, double gang, octagon or 4" square box.

Setting the Address

Each addressable module, smoke sensor, heat detector and combination sensor/detector must have the address set before connecting the device to the SLC loop. The address is set using the hand held device programmer or the addressing feature on the control panel.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed.
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Document discrepancies and notify appropriate personnel.



Specifications			
Working voltage range for SLC	22.0 to 24.0 V	Operating relative humidity range	0% to 93% (Non-condensing)
Standby current for SLC ⁽¹⁾	250 μ A	Start-up time	Max 1 sec.
Working voltage range for 24V	19.0 to 28.0 V	Maximum number of addresses per zone	127
Active current for 24V (Include indicator)	100 mA DC	Color	Eggshell White
Sound pressure level	85dB/3m (min.) as per CAN/ULC-S525 75dB/10ft (min.) as per UL464	Dimensions (without detector)	Height: 2.13 in (54.4 mm)
Installation temperature range ⁽²⁾	32 to 120°F (0 to 49°C)		Diameter: 6.0 inches (150 mm)

(1) The standby current is the current that the device consumes when the device is in a non-activated condition and where no communication current is transmitted to the fire alarm control panel.

(2) FHA with ARB-6 can be installed under 120°F. (Installation temperature range of ARB-6 is 32 to 120°F.)

Sound Pressure Level

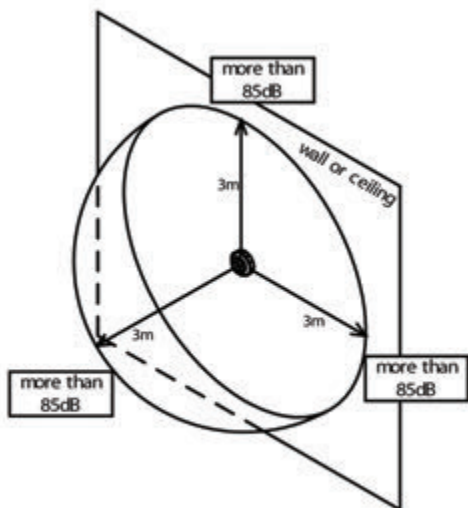


Figure 1: Sound Pressure Level Directional Characteristics

The sound pressure complies and is listed to UL 464 with a minimum of 75 dBA at 10 feet. The sound pressure level is minimum 85dB at anywhere of 3 meter away from the sounder base. This complies with the CAN/ULC-S525 Clauses 7.5 (refer to Figure 2).

Field Wiring Diagram

Typical field wiring diagrams for the Signaling Line Circuit (SLC) are shown in Figure 1. The SLC supports NFPA wiring Styles 4, 6 and 7.

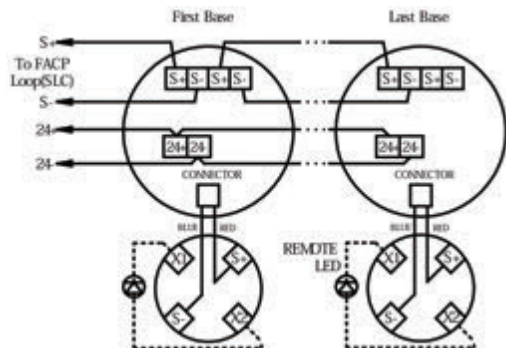


Figure 2: Typical Field Wiring

Figure 1 is typical of NFPA Style 4 SLC (S+, S-) wiring arrangement using the ASB. In a Style 6 arrangement two separate conductors would return from the last base to a listed compatible fire alarm control panel (FACP).

In Style 7, it is required to use Potter-Nohmi's AIBs (Addressable Isolator Bases) and typical field diagram is in the AIB manual.



Locking Feature

The ASB-6 includes a locking feature that prevents removal of the detector and removal of the base cover without using a tool.

1. To eliminate this feature, break off the locking tab (refer to Figure 3), and then install the detector.
2. To remove the detector from the base once the locking feature has been activated, insert a small screwdriver into the slot on the base to push the plastic tab while simultaneously turning the detector head counter-clockwise (refer to Figure 4).
3. To remove the base cover from the lower enclosure once the locking feature has been activated, insert a small screwdriver into the slot on the on the base to push the plastic tab while simultaneously turning the detector head counter-clockwise (refer to Figure 5).

Break the plastic tab by twisting it toward a center of the base

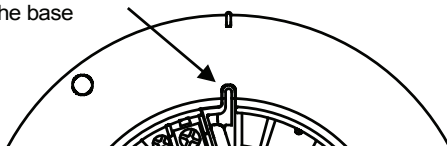


Figure 3: Eliminating the Locking Feature

Use a small bladed screwdriver to push the locking tab

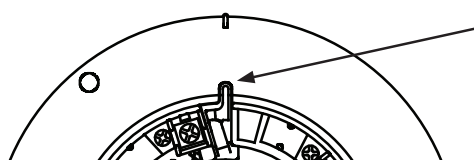


Figure 4: Removing Detector Head from Base

Plastic Tab

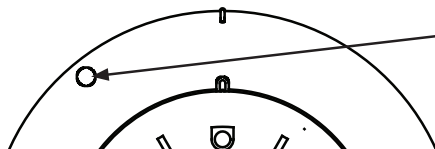


Figure 5: Removing Base Cover from Lower Enclosure

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Ordering Information

Model Number	Description	P/N
ASB-6	6" Analog Sounder Base	99232

Note: Approvals/Listings maintained by and manufactured by Potter Electric Signal Company.

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