



March 29, 2004

DN-3170 • H-320

# B501BH Intelligent Base with Sounder

Section: Intelligent/Addressable Devices

## GENERAL

The B501BH is a mounting base which includes a horn assembly. Any NOTIFIER analog, intelligent detector may be used with the B501BH. When the detector alarms, it commands the sounder to activate. Model B501BH Base with Sounder may be used with the NFS-3030, NFS-640, AM2020, AFP1010, AFP-200, AFP-300, AFP-400, or System 5000 (equipped with AIM-200 module).

## APPLICATIONS

The B501BH is ideal for applications where a sounder is required at each detector location, such as hotel rooms, offices and patient rooms.

## CONSTRUCTION AND OPERATION

The B501BH may be used in two modes of operation:

**Mode 1** — When the detector's LEDs are latched on for approximately 10 seconds, the associated horn sounds.

**Mode 2** — A loop of B501BH Sounder bases may be activated simultaneously by reversing the polarity of the 24-volt supply. This feature may be used in conjunction with **Mode 1** for a "two-stage" type of evacuation.

The B501BH sounder always requires separate 24 VDC to operate the sounder (see *Sounder Electrical Ratings*, p. 2).

## FEATURES

- Sounder output is greater than 90 dBA measured in an anechoic room at 10 feet (3.048 m), 24 volts, 85 dBA minimum measured in UL reverberant room.
- An alarm delay of approximately 10 seconds is built into the B501BH.

## INSTALLATION

NFPA 72 and NEMA guidelines should be observed. (**NOTE:** For installation in Canada, refer to CAN/ULC S524, *Standard for the Installation of Fire Alarm Systems*. See CEC Part 1, Sec. 32.) Units must be mounted directly to a 4" (101.6 mm) square electrical box, minimum 1.5" (38.1 mm) deep, using the supplied mounting kit. A maximum space of 0.125" (3.175 mm) from outside edge of electrical box to the inside edge of the drywall or ceiling tile is allowable.



93/60141 (E2)



California State Fire Marshal  
7300-1209:128

**U.S. Coast Guard**  
161.002/23/3 (AFP-200)  
161.002/42/1 (NFS-640)



**B501BH shown with a smoke detector**

## SPECIFICATIONS

**Base diameter:** 6.0" (15.2 cm).

**Base height (less base and sensor):** 0.75" (1.9 cm).

**Weight:** 0.3 lbs. (140 grams).

**Operating temperature range:** 14°F to 140°F (-10°C to +60°C).

**Operating relative humidity range:** 10% to 95%.

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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, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118



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## SOUNDER ELECTRICAL RATINGS

### External Supply:

**Voltage:** 17 to 32 VDC.

**Standby current:** 1.0 mA maximum.

**Alarm current:** 15 mA maximum.

**Maximum ripple voltage:** 10% of supply voltage.

**Start-up capacitance:** 200  $\mu$ F.

### Communication Loop Power Requirements:

- Current draw from remote output of detector to turn horn ON: Intelligent systems requires 700  $\mu$ A maximum.

### NOTES:

- 1) Auxiliary devices, such as the RA400Z, may not be used in conjunction with the B501BH.
- 2) A high current switching relay is required for both polarities when used for the external power supply. The B501BH requires 1 mA each in the Standby mode and 15 mA each in an Alarm condition. The current capacity during monitoring (normal) can be up to 99 mA (1 mA per base) without any horns sounding (plus an additional 75 mA to 150 mA from local sensor control) or up to 1.5 Amperes with a polarity reversal and 99 mA with horns sounding.

## PRODUCT LINE INFORMATION

**B501BH** Sounder base assembly. Includes B501 base.

**B501** Plug-in flangeless base for 500 Series detectors.

