

B401BH and B401BHA

Conventional Bases with Sounder



Conventional Initiating Devices

General

The System Sensor **B401BH(A) Base with Sounder** is used with conventional 400 Series two-wire plug-in smoke detectors. Refer to the associated control panel manual for more information on detector heads.

NOTE: Only compatible UL/ULC-approved smoke detectors may be used with the B401BH(A).

Features

- Sound output greater than 90 dBA measured in anechoic room at 10 feet (3.048 m), 24 volts. 85 dBA minimum measured in a UL reverberant room.
- An alarm delay of approximately 10 seconds is built into the B401BH(A). This delay is present whether the control signal comes from the sensor or from reversing the external power supply polarity.

Applications

The B401BH(A) base is intended for use with conventional plug-in systems. See systems literature for maximum allowable number of units per loop.

Construction and Operation

The B401BH(A) requires an external 24 VDC supply with reverse polarity capability. The connections of the external supply (terminals 1 and 2) and the communication/initiating loop (terminals 3, 4, and 5) are isolated in the B401BH(A) to prevent electrical interaction between them.

NOTE: When not used as a supplementary evacuation system, the external 24 VDC supply shall be treated as a component of the main power supply system and shall fall under the requirements of the main power supply system per NFPA 72.

When the detector head's visible LEDs are latched ON for approximately 10 seconds, the base horn sounds. A loop of horns can be made to sound with the polarity reversal of the external supply.

Installation

NFPA 72 and NEMA guidelines should be observed. **For installation in Canada**, refer to CAN/ULC S524, Standard for the Installation of Fire Alarm Systems and CEC Part 1, Sec. 32.

Units must be mounted directly to a 4.0" (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.

A flangeless plug-in base is used to attach detectors to the B401BH(A) base with sounder.

Before installing detectors, please read *Guide for Proper Use of System Smoke Detectors*, document number 156-407-00, which provides detailed information on detector spacing,



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B401BH sounder assembly, shown with a 2541 photo detector

placement, zoning, wiring, and special applications.

B601BH(A) TERMINALS:

1. External Supply Positive (+)
2. External Supply Negative (-)
3. Negative (-) V In
4. Positive (+) V In and V Out
5. Negative (-) V Out

NOTE: Terminals 3, 4, and 5 are used for the communication/initiating circuit.

Specifications

Base diameter: 6.0" (152.4 mm).

Base height (less base & sensor): 0.75" (19.05 mm).

Weight: 0.3 lbs. (140 grams).

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

Operating humidity range: 10% to 95% relative humidity, non condensing.

Sounder in UL reverberant room: 85 dBA minimum.

Sounder in anechoic room: > 90 dBA @ 10 feet (3 m), 24 volts.

Electrical Ratings

Wiring: Two-wire.

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.

Startup capacitance: 200 μ F.

Agency Listings and Approvals

These listings and approvals apply to the B401BH(A). 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** Listed: file S911.
- **ULC** Listed: file S911.
- **CSFM** approved: file 7300-1653:109.
- **Maryland State Fire Marshal** approved: Permit # 1985.
- **MEA** approved: file 205-94-E.

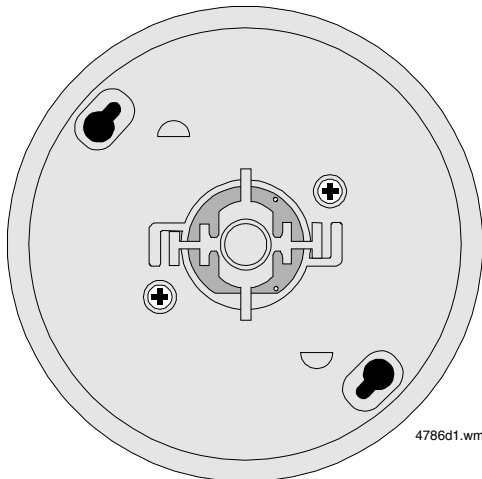
Product Line Information

B401BH: Sounder base assembly, includes pre-assembled sounder and B401 base.

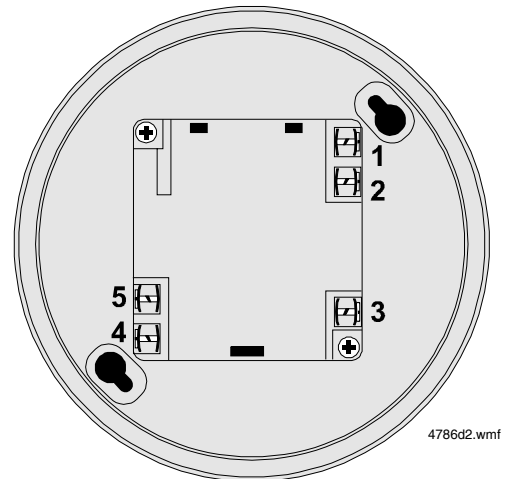
B401BHA: Same as above with ULC listing.

B401: Plug-in flangeless base for 400 Series detectors.

B401A: Same as above with ULC listing.



**Face of B401BH(A) detector base
with sounder**



Back of detector base with sounder

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For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.
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