

PF24V(A) ExitPoint™

Directional Sounder with Voice Messaging



Audio/Visual Devices

General

The *ExitPoint™ Directional Sounder* has an integral audio amplifier that produces a pulsating sound consisting of broadband low, mid, and high range sounds. The broadband noise makes it possible to determine the location of the sound. There are four pulse patterns that can be used to create an egress pathway out of a building and to mark perimeter exits. In addition to the broadband noise, the sounder is capable of playing an alert message in the form of a recorded voice message or other audible signals. These messages will instruct the occupants of what action to take as they approach the directional sounder, and will allow them to react quickly and confidently when the sounder is activated. Fifteen different language combinations are available to instruct occupants that they are nearing an exit, a stairway up, a stairway down, or an area of refuge. The directional sounder also incorporates an optional disable feature for use in conjunction with a control module or heat sensor.

The directional sounder features a number of field selectable power settings including high, medium-high, medium-low, and low. Installation ease and pleasing aesthetics are achieved by a low profile compact design, and by the ability to flush mount in a 4" x 4" x 2¼" back-box.

ExitPoint directional sounders, fitted in addition to normal building evacuation sounders, draw people to evacuation routes in both good and poor visibility. The directional sounder can be used in a wide range of building applications. Trials consistently have shown an improvement of up to 75 percent in evacuation times in smoke and up to 35 percent without smoke. The 2007 Edition of NFPA 72 now provides installation and maintenance guidelines on directional sounders.

Features

- Listed to UL 464 (indoor applications only)
- Five field-selectable power settings
- Four field-selectable routing evacuation patterns
- Constructed to be effective in unfamiliar surroundings or poor visibility
- Designed to work in open areas, corridors, or stairs
- Fifteen different language selections available
- Reduces evacuation times by as much as 75 percent
- Optional disable feature for use in conjunction with a control module or heat sensor
- Low profile, compact design

Specifications

ELECTRICAL SPECIFICATIONS

Voltage Input: Regulated 24 Volts

Operating Voltage Range: 16 to 33 Volts

Operating Temperature: 32°F to 120°F (0°C to 49°C)

Power Setting: High, medium-high, medium, medium-low, low

MECHANICAL SPECIFICATIONS

Input Terminals: 12-24 AWG

Speaker Size: 4" (101 mm)

Grille Size: 4 7/8" (127 mm)



Additional Tone Selection

| Switch Position 5 Setting | Switch Position 6 Setting | Sound Output |
|---------------------------|---------------------------|----------------|
| On | On | Area of Refuge |
| On | Off | Upstairs |
| Off | On | Downstairs |
| Off | Off | Exit Here |

Enable/Disable Selection

| Switch Position 4 Setting | Terminals 3 & 4 | Sound Output |
|---------------------------|-----------------|--------------|
| On | Open | Disabled |
| On | Closed | Enabled |
| Off | Open | Enabled |
| Off | Closed | Disabled |

Power Setting Guide

| DIP Switch Position 1 Setting | DIP Switch Position 2 Setting | DIP Switch Position 3 Setting | Power Setting |
|-------------------------------|-------------------------------|-------------------------------|---------------|
| Off | Off | Off | High |
| On | Off | Off | Med-High |
| Off | On | Off | Med |
| Off | Off | On | Med-Low |
| On | On | On | Low |

Current Draw Measurements and Sound Output Guide

| Speed | DIP Switch Selection | Power Setting | Max DC Operating Current (mA RMS) | Audibility (dBA) Note 1 | Audibility (dBA) Note 2 |
|-------------|----------------------|---------------|-----------------------------------|----------------------------|----------------------------|
| Fast (Exit) | 10 | High | 185 | 84 | 75 |
| Fast (Exit) | 10 | Med-High | 131 | 81 | 72 |
| Fast (Exit) | 10 | Med | 78 | 78 | 69 |
| Fast (Exit) | 10 | Med-Low | 76 | 75 | 66 |
| Fast (Exit) | 10 | Low | 64 | 72 | 63 |
| Med-Fast | 9 | High | 170 | 83 | 74 |
| Med-Fast | 9 | Med-High | 124 | 80 | 71 |
| Med-Fast | 9 | Med | 75 | 77 | 68 |
| Med-Fast | 9 | Med-Low | 73 | 74 | 65 |
| Med-Fast | 9 | Low | 62 | 71 | 62 |
| Med-Slow | 8 | High | 135 | 82 | 73 |
| Med-Slow | 8 | Med-High | 104 | 79 | 70 |
| Med-Slow | 8 | Med | 67 | 76 | 67 |
| Med-Slow | 8 | Med-Low | 65 | 73 | 64 |
| Med-Slow | 8 | Low | 57 | 70 | 61 |
| Slow | 7 | High | 120 | 82 | 72 |
| Slow | 7 | Med-High | 92 | 79 | 69 |
| Slow | 7 | Med | 62 | 76 | 66 |
| Slow | 7 | Med-Low | 61 | 73 | 63 |
| Slow | 7 | Low | 54 | 70 | 60 |

Note 1: Sound output measured in anechoic room at 10 feet.
Note 2: Sound output measured in a reverberant room at 10 feet.

Language/Audible Tone Selection Guide

| Rotary Switch Selection | Tone/Language | | |
|-------------------------|--------------------|----|--------------------|
| 0 | Audible tone/sweep | 8 | Mandarin |
| 1 | English | 9 | English/Cantonese |
| 2 | Spanish | 10 | English/Mandarin |
| 3 | French | 11 | Cantonese/Mandarin |
| 4 | English/Spanish | 12 | English/Korean |
| 5 | English/French | 13 | English/Portuguese |
| 6 | Korean | 14 | English/Russian |
| 7 | Cantonese | 15 | English/Polish |

Agency Listings and Approvals

Consult product manual for lists of compatible UL-Listed devices. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S4011
- **ULC Listed:** S8971
- **FM Approved**
- **CSFM:** 7135-1653:175
- **MEA Approved:** 492-04-E Vol. 2

Ordering Information

PF24V: ExitPoint Directional Sounder with Voice Messaging

PF24VA: Same as PF24V, but with ULC (Canada)

BBS-SP201W: Surface mount backbox skirt for PF24V

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