

# PF24 ONYX® ExitPoint™

## Directional Sounder



Audio/Visual Devices

### General

The ONYX ExitPoint™ directional sounder model **PF24** has an integral audio amplifier which produces a sound that consists of broadband low-, mid- and high-range sound in specific pulse patterns. ONYX ExitPoint directional sounders, fitted in addition to the normal building evacuation sounders, offer a way to draw peoples to evacuation routes even in perfect visibility; however, they are without equal in smoke. Triggered by existing fire detection systems, directional sounders positioned at carefully chosen locations guide building occupants along escape routes and to perimeter building exits.

The PF24 directional sounder incorporates four different field-selectable sound pulse patterns. The pattern consist of broadband noise which make it possible to locate where the sound is coming from. The four pulse patterns are used to create an egress pathway out of a building and mark perimeter exits. The sound pattern becomes faster as the building occupant approaches the perimeter exit. Three additional tone pulses can be added to each of the four pulse patterns. Two of the tone pulses are used to alert occupants they are approaching a stairway and need to proceed either up or down. The third tone pulse is an alert tone marking areas of refuge for those who need to find those areas. The PF24 directional sounder also incorporates an optional disable feature for use in conjunction with a control module or heat sensor.

The directional sounder features a wide range of field-selectable power settings including 1/4, 1/2, 1, 2, and 4 watts. Installation ease and pleasing aesthetics are achieved by the ability to flush-mount in a 4" x 4" x 2-1/4" backbox and a low-profile, compact design.

The PF24 directional sounder can be used in a wide range of building applications. Trials have consistently shown an improvement of up to 75% in evacuation times in smoke and up to 35% without smoke.

### Features

- Listed to UL 464 (indoor applications only).
- Five field-selectable power settings.
- Four field-selectable routing evacuation patters.
- Low-profile, compact design.
- Language independent.
- Ideal in unfamiliar surroundings or poor visibility.
- Works in open areas, corridors, or stairs.
- Reduces evacuation time by as much as 75%.

### Specifications

#### ELECTRICAL

**Voltage Input:** regulated 24 volts.

**Operating Voltage Range:** 16 to 33 volts.

**Operating Humidity Range:** 10% to 93% relative humidity, noncondensing.

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

**Frequency Range:** 800 to 8000 Hz.

**Power:** 1/4, 1/2, 1, 2, 4 watts, selectable.



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### MECHANICAL

**Input Terminals:** 12 AWG (3.1 mm<sup>2</sup>) to 24 AWG (2.0 mm<sup>2</sup>).

**Speaker Size:** 4 inches (101 mm).

**Grille Size:** 4.875 inches (127 mm).

### Agency Listings and Approvals

These listings and approvals apply to the **PF24**. 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:** S4011
- **ULC:** CS1103
- **CSFM:** 7135-1653:175
- **MEA:** 492-04-E
- **FM Approved**

### Product Line Information

**PF24:** ONYX ExitPoint™ directional sounder.

### Additional Tone Selection

| Switch Position<br>5 Setting | Switch Position<br>6 Setting | Sound Output |
|------------------------------|------------------------------|--------------|
| ON                           | ON                           | ALERT        |
| ON                           | OFF                          | UP Stairs    |
| OFF                          | ON                           | DOWN Stairs  |
| OFF                          | OFF                          | No Tones     |

## Current Draw Measurements and Sound Output Guide

| Speed Selection |                  | Power Setting | Maximum DC Operating Current (mA RMS) (16 to 33V) | Audibility Anechoic dBA* (16 to 33V) | Audibility Reverberant dBA** (16 to 33V) |
|-----------------|------------------|---------------|---|--------------------------------------|--|
| Speed           | Switch Selection |               |   |                                      |  |
| FAST (exit)     | 10               | 4 watt        | 225   | 85                                   | 78                                       |
| FAST (exit)     | 10               | 2 watt        | 114   | 82                                   | 76                                       |
| FAST (exit)     | 10               | 1 watt        | 75  | 79                                   | 73                                       |
| FAST (exit)     | 10               | 1/2 watt      | 62  | 76                                   | 69                                       |
| FAST (exit)     | 10               | 1/4 watt      | 49  | 73                                   | 66                                       |
| MED1            | 9                | 4 watt        | 221   | 85                                   | 77                                       |
| MED1            | 9                | 2 watt        | 112   | 82                                   | 74                                       |
| MED1            | 9                | 1 watt        | 74  | 79                                   | 71                                       |
| MED1            | 9                | 1/2 watt      | 61  | 76                                   | 68                                       |
| MED1            | 9                | 1/4 watt      | 48  | 73                                   | 65                                       |
| MED2            | 8                | 4 watt        | 203   | 85                                   | 78                                       |
| MED2            | 8                | 2 watt        | 103   | 82                                   | 75                                       |
| MED2            | 8                | 1 watt        | 68  | 79                                   | 73                                       |
| MED2            | 8                | 1/2 watt      | 56  | 76                                   | 69                                       |
| MED2            | 8                | 1/4 watt      | 44  | 73                                   | 66                                       |
| SLOW            | 7                | 4 watt        | 189   | 85                                   | 76                                       |
| SLOW            | 7                | 2 watt        | 96  | 82                                   | 73                                       |
| SLOW            | 7                | 1 watt        | 63  | 79                                   | 70                                       |
| SLOW            | 7                | 1/2 watt      | 52  | 76                                   | 67                                       |
| SLOW            | 7                | 1/4 watt      | 41  | 73                                   | 64                                       |

\* NOTE1: Sound output measured in anechoic room at 10 feet (3.048m).

\*\* NOTE2: Sound output measured in reverberant room at 10 feet (3.048m).

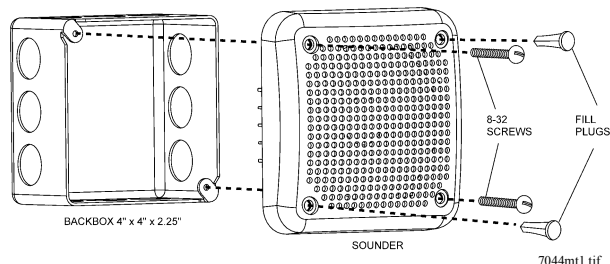
## Power Setting Guide

| Switch Position 1 Setting | Switch Position 2 Setting | Switch Position 3 Setting | Power Setting |
|---------------------------|---------------------------|---------------------------|---------------|
| OFF                       | OFF                       | OFF                       | 4 watt        |
| ON                        | OFF                       | OFF                       | 2 watt        |
| OFF                       | ON                        | OFF                       | 1 watt        |
| OFF                       | OFF                       | ON                        | 1/2 watt      |
| ON                        | ON                        | ON                        | 1/4 watt      |

## Enable/Disable Selection

| Switch Position 4 Setting | Terminals 3 & 4 | Sound Output |
|---------------------------|-----------------|--------------|
| ON                        | open            | Disabled     |
| ON                        | closed          | Enabled      |
| OFF                       | open            | Enabled      |
| OFF                       | closed          | Disabled     |

## PF24 Mounting



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