# SpectrAlert® Advance Mini-Horns

## MHR/MHW

FIRE·LITE A
by Honey

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Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 04/08/16

## General

The SpectrAlert® Advance series of mini-horn sounders are designed to simplify installation to provide primary and secondary signaling for fire and security applications.

The MHR and MHW mini-horns operate at 12 and 24 volts and are ideal for hotel, motel or residential fire system applications, where a smaller notification device is desired. The mini-horns offer high and low volume settings, and temporal or non-temporal tones. The horns can be mounted to single gang back boxes for aesthetically sensitive applications. Synchronization is also provided when using the MDL3R, MDL3W module or any Fire•Lite panel with the System Sensor sync protocol.

The MHR and MHW mini-horns can operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified, unfiltered power supply. They are listed to Underwriter's Laboratories.

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## Features

- Standard UL 464 for fire protective signaling systems.
- 12 and 24V operation.
- High and low volume settings.
- Temporal and non-temporal tones.
- Mounts to a single-gang backbox.
- Compatible with MDL sync module.
- Mechanically and electrically compatible with PA400 series Mini-Alert™ sounders.

## Specifications

### *PHYSICAL SPECIALIZATIONS*

**Dimensions:** 4.6"L x 2.9"W x .45"D.

**Weight:** 2.67 oz.

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

**Mounting:** Surface: Deep single-gang backbox (2-3/4" deep); Flush: Standard 4" x 4" back box.

### *ELECTRICAL SPECIFICATIONS*

**Input Terminals:** 12 to 18 AWG

**Nominal Voltage:** Regulated 12DC/FWR or 24DC/FWR

**Operating Voltage:** 8-33

**Operating Voltage with MDL3R/W:** 9-33

## Architectural/Engineering Specifications

Mini-horns shall be a System Sensor Model MHR or MHW capable of operating at nominal 12 or 24VDC and shall mount to a single gang back box. Mini-horns shall be listed to Underwriter's Laboratories Standard UL464 for fire protective signaling systems. Mini-horns shall operate between 32 and 120 degrees Fahrenheit from a regulated DC, or full-wave rectified, unfiltered power supply. When used with the Sync•Circuit™ Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts.

## Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in progress. Consult factory for listing status.

- **UL Listed:** S4011
- **MEA:** 7-07-E
- **CSFM:** 7135-1653:196
- **FM Approved:** 3028007

## Ordering Information

**MHR:** Mini-Horn; Red.

**MHW:** Mini-Horn; White.

## UL Sound Output and Current Draw Data

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### *SOUNDER OUTPUT (dBA)*

| Switch Position | Sound Pattern | Volume | 8-17.5 VDC | 8-17.5 VFWR | Nominal 12 VDC | Nominal 12 VFWR | 1 V | |
|---|---|---|---|---|---|---|---|---|
| 1 | Temporal | High | 68 | 67 | 71 | 70 | | |
| 2 | Temporal | Low | 66 | 65 | 69 | 68 | | |
| 3 | Non-temporal | High | 72 | 71 | 75 | 74 | | |
| 4 | Non-temporal | Low | 70 | 69 | 73 | 72 | 78 | 77 |

### *SOUNDER CURRENT DRAW (mA RMS)*

| Switch Position | Sound Pattern | Volume | 8-17.5 V | | 16-33 V | |
|---|---|---|---|---|---|---|
| | | | DC | FWR | DC | FWR |
| 1 | Temporal | High | 12 | 10 | 17 | 15 |
| 2 | Temporal | Low | 10 | 9 | 14 | 13 |
| 3 | Non-temporal | High | 22 | 17 | 29 | 25 |
| 4 | Non-temporal | Low | 17 | 13 | 21 | 19 |

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We cannot cover all specific applications or anticipate all requirements.
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