# SpectrAlert® Advance

## Selectable Output
## Notification Appliances

**FIRE·LITE·ALARMS**
by Honeywell

**Audio/Visual Devices**

## General

System Sensor® SpectrAlert® Advance selectable-output horns, strobes and horn/strobes are rich with features guaranteed to cut installation times and maximize profits. The SpectrAlert Advance series of notification appliances is designed to simplify your installations, with features such as: plug-in designs, instant feedback messages to ensure correct installation of individual devices, and eleven field-selectable candela settings for wall and ceiling strobes and horn/strobes.

More specifically, when installing Advance products, first attach a universal mounting plate to a four-inch square, four-inch octagon, or double-gang junction box. The two-wire mounting plate attaches to a single-gang junction box.

Then, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the horn, strobe, or horn/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

**SpectrAlert Advance products allow you to choose:**

*   12 or 24 volts.
*   15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, or 185 candela by way of a rear-mounted slide switch and front viewing window.
*   Horn tones and volume by way of a rotary switch.
*   The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two-wire and four-wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between –40°F and 151°F (–40°C and 66°C) in wet or dry applications.

**Models available:**

*   Indoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
*   Indoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.
*   Outdoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
*   Outdoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.

## Features

*   Plug-in design.
*   Same mounting plate for wall- and ceiling-mount units.
*   Shorting spring on mounting plate for continuity check before installation.
*   Captive mounting screw.
*   Tamper-resistance capability.
*   Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.
*   Automatic selection of 12 or 24 volt operation at 15 and 15/75 candela.
*   Outdoor wall and ceiling products.



**Indoor Ceiling Horn/Strobe**



**Outdoor Ceiling Strobe**



**Indoor Wall Horn/Strobe**



**Indoor Ceiling Strobe**



**Indoor Wall Horn**



**Outdoor Wall Strobe**

*   Outdoor products rated from –40°F and 151°F (–40°C and 66°C).
*   Outdoor products rainproof per UL50 (NEMA 3R) and weatherproof per NEMA 4X, IP56
*   Minimal intrusion into the backbox.
*   Horn rated at 88+ dbA at 16 volts.
*   Rotary switch for tone selection.
*   Three horn volume settings.
*   Electrically compatible with existing SpectrAlert products.

## Engineering Specifications

SpectrAlert Advance horns, strobes, and horn/strobes shall mount to a standard 4.0" x 4.0" x 1.5" (10.16 x 10.16 x 3.81 cm) backbox, 4.0" (10.16 cm) octagonal backbox, or a double-gang backbox. Two-wire products shall also mount to a single-gang 2.0" x 4.0" x 1.875" (5.08 x 10.16 x 4.763 cm) backbox. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F (0°C and 49°C) from a regulated DC, or full-wave-rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

### STROBE

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

### HORN/STROBE COMBINATION

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn/strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a Temporal 3 pattern and a Non-Temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

### OUTDOOR PRODUCTS

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between –40°F and 151°F (–40°C and 66°C). The products shall be listed for use with a System Sensor outdoor/weatherproof backbox with half-inch and three-fourths-inch conduit entries.

### SYNCHRONIZATION MODULE

The module shall be a System Sensor Sync•Circuit MDL3R or MDL3W listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at Temporal 3. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4.688" x 4.688" x 2.125" (11.906 x 11.906 x 5.398 cm) backbox. The module shall also control two Style Y (class B) circuits or one Style Z (Class A) circuit. The module shall synchronize multiple zones. Daisy-chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

## Operating Specifications

- **Standard operating temperature:** 32°F to 120°F (0°C to 49°C).
- **K Series operating temperature:** –40°F to 151°F (–40°C to 66°C).
- **Humidity range:** 10% to 93% non-condensing (indoor products).
- **Strobe flash rate:** 1 flash per second.
- **Nominal voltage:** regulated 12 VDC/FWR or regulated 24 VDC/FWR. **NOTE:** *Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.*
- **Operating voltage range:** 8 V to 17.5 V (12 V nominal); or 16 V to 33 V (24 V nominal). **NOTE:** *P, S, PC, and SC products will operate at 12 V nominal only for 15 cd and 15/75 cd.*
- **Input terminal wire gauge:** 12 to 18 AWG (3.31 to 0.821 mm²).
- **Ceiling-mount dimensions (including lens):** 6.8" diameter x 2.5" deep (17.3 cm diameter x 6.4 cm deep).
- **Wall-mount dimensions (including lens):** 5.6" H x 4.7" W x 2.5" D (14.2 cm H x 11.9 cm W x 6.4 cm D).
- **Horn dimensions:** 5.6" H x 4.7" W x 1.3" D (14.2 cm H x 11.9 cm W x 3.3 cm D).

## Agency Listings and Approvals

The listings and approvals below apply to SpectrAlert Advance Selectable Output Notification 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** (HR__, HW__, P2__, P4__, PC2__, PC4__ models); **S5512** (models SCR, SCRH, SCW, SCWH, SR, SRH, SW, SWH); **S3593** (SCRHK, SCRK, SRHK, SRK).
- **ULC Listed: S4011** (HRA, HRKA); **S5512** (typically "A" models, with exception of outdoor strobes). *See Canadian data sheet for listings and specifications.*
- **FM approved**
- **MEA**: 452-05-E
- **CSFM: 7125-1653:0186** (SCR, SCRH, SCW, SCWH, SR, SRH, SW, SWH); **7300-1653:0188** (P2_, P4_, PC2_, PC4_ modules); **7135-1653:0189** (HR, HRK, HW); **7300-1653:0187** (SCRHK, SCRK, SRHK, SRK).

### Strobe Current Draw, UL Maximum (mA RMS)

| Candela | | 8 – 17.5 V | | 16 – 33 V | |
|---|---|---|---|---|---|
| | | DC | FWR | DC | FWR |
| Standard Candela Range | 15 | 123 | 128 | 66 | 71 |
| | 15/75 | 142 | 148 | 77 | 81 |
| | 30 | NA | N/A | 94 | 96 |
| | 75 | NA | NA | 158 | 153 |
| | 95 | NA | NA | 181 | 176 |
| | 110 | NA | NA | 202 | 195 |
| | 115 | NA | NA | 210 | 205 |
| High Candela Range | 135 | NA | NA | 228 | 207 |
| | 150 | NA | NA | 246 | 220 |
| | 177 | NA | NA | 281 | 251 |
| | 185 | NA | NA | 286 | 258 |

### Horn Current Draw, UL Maximum (mA RMS)

| Sound Pattern | dB | 8 – 17.5 V | | 16 – 33 V | |
|---|---|---|---|---|---|
| | | DC | FWR | DC | FWR |
| Temporal | High | 57 | 55 | 69 | 75 |
| Temporal | Medium | 44 | 49 | 58 | 69 |
| Temporal | Low | 38 | 44 | 44 | 48 |
| Non-temporal | High | 57 | 56 | 69 | 75 |
| Non-temporal | Medium | 42 | 50 | 60 | 69 |
| Non-temporal | Low | 41 | 44 | 50 | 50 |
| Coded | High | 57 | 55 | 69 | 75 |
| Coded | Medium | 44 | 51 | 56 | 69 |
| Coded | Low | 40 | 46 | 52 | 50 |

## Horn and Horn/Strobe Rotary Switch Setting

| Setting | Repetition Rate | dB Level |
|---------|-----------------|----------|
| 1 | Temporal horn | High |
| 2 | Temporal horn | Medium |
| 3 | Temporal horn | Low |
| 4 | Normal horn | High |
| 5 | Normal horn | Medium |
| 6 | Normal horn | Low |
| 7* | Externally coded | High |
| 8* | Externally coded | Medium |
| 9* | Externally coded | Low |

*NOTE: Settings 7, 8, and 9 are not available on 2-wire horn/strobe.*

## Horn and Horn/Strobe Output (dBA)

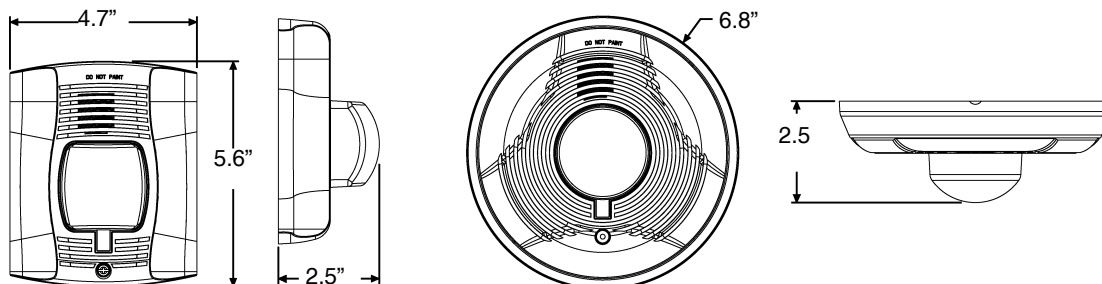| Switch Position | Sound Pattern | dB | 8 – 17.5 V | | 16 – 33 V | |
|-----------------|---------------|-----|-----|-----|-----|-----|
| | | | DC | FWR | DC | FWR |
| 1 | Temporal | High | 78 | 78 | 84 | 84 |
| 2 | Temporal | Medium | 74 | 74 | 80 | 80 |
| 3 | Temporal | Low | 71 | 73 | 76 | 76 |
| 4 | Non-temporal | High | 82 | 82 | 88 | 88 |
| 5 | Non-temporal | Medium | 78 | 78 | 85 | 85 |
| 6 | Non-temporal | Low | 75 | 75 | 81 | 81 |
| 7* | Coded | High | 82 | 82 | 88 | 88 |
| 8* | Coded | Medium | 78 | 78 | 85 | 85 |
| 9* | Coded | Low | 75 | 75 | 81 | 81 |

*NOTE: Settings 7, 8, and 9 are not available on 2-wire horn/strobe.*

## Two-Wire Horn/Strobe, *STANDARD* Candela Range (15 – 115 cd), UL Maximum Current Draw (mA RMS)

| Input, Sound Pattern, dB Level | 8 – 17.5 V | | 16 – 33 V | | | | | | |
|--------------------------------|-----|-------|-----|-------|-----|-----|-----|-----|-----|
| | 15 | 15/75 | 15 | 15/75 | 30 | 75 | 95 | 110 | 115 |
| DC Input, Temporal, High | 137 | 147 | 79 | 90 | 107 | 176 | 194 | 212 | 218 |
| DC Input, Temporal, Medium | 132 | 144 | 69 | 80 | 97 | 157 | 182 | 201 | 210 |
| DC Input, Temporal, Low | 132 | 143 | 66 | 77 | 93 | 154 | 179 | 198 | 207 |
| DC Input, Non-temporal, High | 141 | 152 | 91 | 100 | 116 | 176 | 201 | 221 | 229 |
| DC Input, Non-temporal, Medium | 133 | 145 | 75 | 85 | 102 | 163 | 187 | 207 | 216 |
| DC Input, Non-temporal, Low | 131 | 144 | 68 | 79 | 96 | 156 | 182 | 201 | 210 |
| FWR Input, Temporal, High | 136 | 155 | 88 | 97 | 112 | 168 | 190 | 210 | 218 |
| FWR Input, Temporal, Medium | 129 | 152 | 78 | 88 | 103 | 160 | 184 | 202 | 206 |
| FWR Input, Temporal, Low | 129 | 151 | 76 | 86 | 101 | 160 | 184 | 194 | 201 |
| FWR Input, Non-temporal, High | 142 | 161 | 103 | 112 | 126 | 181 | 203 | 221 | 229 |
| FWR Input, Non-temporal, Medium | 134 | 155 | 85 | 95 | 110 | 166 | 189 | 208 | 216 |
| FWR Input, Non-temporal, Low | 132 | 154 | 80 | 90 | 105 | 161 | 184 | 202 | 211 |

## Two-Wire Horn/Strobe, *HIGH* Candela Range (135 – 185 cd), UL Maximum Current Draw (mA RMS)

| DC Input | 16 – 33 V | | | | FWR Input | 16 – 33 V | | | |
|----------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|
| | 135 | 150 | 177 | 185 | | 135 | 150 | 177 | 185 |
| DC, Temporal, High | 245 | 259 | 290 | 297 | FWR, Temporal, High | 215 | 231 | 258 | 265 |
| DC, Temporal, Medium | 235 | 253 | 288 | 297 | FWR, Temporal, Medium | 209 | 224 | 250 | 258 |
| DC, Temporal, Low | 232 | 251 | 282 | 292 | FWR, Temporal, Low | 207 | 221 | 248 | 256 |
| DC, Non-temporal, High | 255 | 270 | 303 | 309 | FWR, Non-temporal, High | 233 | 248 | 275 | 281 |
| DC, Non-temporal, Medium | 242 | 259 | 293 | 299 | FWR, Non-temporal, Medium | 219 | 232 | 262 | 267 |
| DC, Non-temporal, Low | 238 | 254 | 291 | 295 | FWR, Non-temporal, Low | 214 | 229 | 256 | 262 |

7087dim12009.tif



4.7"  5.6"  2.5"  6.8"  2.5

## Ordering Information

| Model | Description | Model | Description |
|---|---|---|---|
| **WALL HORN/STROBES** | | **CEILING HORN/STROBES** | |
| P2R | 2-wire horn/strobe, standard cd, red. | PC2R | 2-wire horn/strobe, standard cd, red. |
| P2RH | 2-wire horn/strobe, high cd, red. | PC2RH | 2-wire horn/strobe, high cd, red. |
| P2RK | 2-wire horn/strobe, standard cd, red, outdoor. | PC2RK | 2-wire horn/strobe, standard cd, red, outdoor. |
| P2RHK | 2-wire horn/strobe, high cd, red, outdoor. | PC2RHK | 2-wire horn/strobe, high cd, red, outdoor. |
| P2W | 2-wire horn/strobe, standard cd, white. | PC2W | 2-wire horn/strobe, standard cd, white. |
| P2WH | 2-wire horn/strobe, high cd, white. | PC2WH | 2-wire horn/strobe, high cd, white. |
| P4R | 4-wire horn/strobe, standard cd, red. | PC4R | 4-wire horn/strobe, standard cd, red. |
| P4RH | 4-wire horn/strobe, high cd, red. | PC4RH | 4-wire horn/strobe, high cd, red. |
| P4RK | 4-wire horn/strobe, standard cd, red, outdoor. | PC4RK | 4-wire horn/strobe, standard cd, red, outdoor. |
| P4RHK | 4-wire horn/strobe, high cd, red, outdoor. | PC4RHK | 4-wire horn/strobe, high cd, red, outdoor. |
| P4W | 4-wire horn/strobe, standard cd, white. | PC4W | 4-wire horn/strobe, standard cd, white. |
| P4WH | 4-wire horn/strobe, high cd, white. | PC4WH | 4-wire horn/strobe, high cd, white. |
| **WALL STROBES** | | **CEILING STROBES** | |
| SR | Strobe, standard cd, red. | SCR | Strobe, standard cd, red. |
| SRH | Strobe, high cd, red. | SCRH | Strobe, high cd, red. |
| SRK | Strobe, standard cd, red, outdoor. | SCRK | Strobe, standard cd, red, outdoor. |
| SRHK | Strobe, high cd, red, outdoor. | SCRHK | Strobe, high cd, red, outdoor. |
| SW | Strobe, standard cd, white. | SCW | Strobe, standard cd, white. |
| SWH | Strobe, high cd, white. | SCWH | Strobe, high cd, white. |
| **ACCESSORIES** | | **HORNS** | |
| BBS-2A | Backbox skirt, wall, red. | HR | Horn, red. |
| BBSW-2A | Backbox skirt, wall, white. | HRK | Horn, red, outdoor. |
| BBSC-2A | Backbox skirt, ceiling, red. | HW | Horn, white. |
| BBSCW-2A | Backbox skirt, ceiling, white. | **ACCESSORIES, continued** | |
| SA-WBB | Weatherproof backbox, wall. | TR-HS | Trim Ring, wall, red, package of 5 |
| SA-WBBC | Weatherproof backbox, ceiling. | TRW-HS | Trim Ring, wall, white, package of 5 |
| WTP | Weatherproof, flush mount plate, red | TRC-HS | Trim Ring, ceiling, red, package of 5 |
| WTPW | Weatherproof, flush mount plate, white | TRCW-HS | Trim Ring, ceiling, white, package of 5 |

*NOTE:* "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings.

*NOTE:* For strobes and horn/strobes, add suffix "F" for French or "B" for Bilingual.

*NOTE:* All outdoor models ("K(A)" suffix) include a plastic weatherproof backbox.

*NOTE:* Add "-R" to models for weatherproof replacement device (no back box included). Only for use with weatherproof outdoor flush mounting plate, WTP and WTPW.

*NOTE:* Add "P" to model for plain housing. (No "FIRE" marking on cover.)

**ISO 9001**
**CERTIFIED**
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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.

Made in the U.S. A.

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