SpectrAlert® Advance
Indoor Selectable Output Speaker Strobes and Dual Voltage Evacuation Speakers

General
The SpectrAlert Advance Series of speakers and speaker strobes is designed to reduce ground faults. The plug-in design allows the installer to pre-wire mounting plates and dress the wires before plugging in the speakers. The plastic cover prevents nicked wires by covering exposed speaker components.

This design also allows faster installations with instant feedback to ensure that wiring is properly connected; rotary switches to select voltage and power settings; and 11 field selectable candela settings for wall and ceiling speaker strobes.

The low total harmonic distortion of the SP speaker offers high fidelity sound output while the SPV speaker offers high volume sound output for use in high ambient noise applications.

SpectrAlert Advance makes installation easy
- Attach a universal mounting plate to a 4” x 4” x 2-1/8” back box. Flush mount applications are achievable without the need for an extension ring.
- Connect the notification appliance circuit or speaker wiring to the PEMS terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by inserting the product tabs into the mounting plate grooves. Rotate the device into position to lock the product pins into the mounting plate terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

Features
- Plug-in design
- Protective cover isolates speaker components, reduces ground faults
- Electrical compatibility with existing SpectrAlert products
- Field selectable candela settings on wall and ceiling units:
  - Standard: 15, 15/75, 30, 75, 95, 110, 115
  - High: 135, 150, 177, 185
- Shorting spring on mounting plate tests continuity before installation
- Rotary switch simplifies field selection of speaker voltage and power settings
- Universal mounting plate for wall- and ceiling-mount units
- Compatible with System Sensor synchronization protocol
- SP speakers offer high fidelity sound output
- SPV speakers offer high volume sound output
- Automatic selection of 12 or 24 volt operation at 15 and 15/75 candela
- No extension ring required
- Ceiling and wall mount application
- Optional tamper resistant Torx head screw included

Specifications

PHYSICAL SPECIFICATIONS
Operating Temperature: 32°F to 120°F (0°C to 49°C)
Humidity Range: 10 to 93% non-condensing
Dimensions, Wall-Mount:
- SPS Speaker Strobe: 6.0”L x 5.0”W x 4.7”D (includes lens and speaker)
- SP Speaker: 6.0”L x 5.0”W x 2.8”D
- SPV Speaker: 6.0”L x 5.0”W x 2.9”D

Dimensions, Ceiling-Mount:
- SPS Speaker Strobe: 6.8”Dia x 4.7”D (includes lens and speaker)
- SPV Speaker Strobe: 6.8”Dia x 4.8”D (includes lens and speaker)
- SP Speaker: 6.8”Dia x 2.8”D
- SPV Speaker: 6.8”Dia x 2.9”D

ELECTRICAL/OPERATING SPECIFICATIONS
Nominal Voltage (speakers): 25 Volts or 70.7 Volts (nominal)
Maximum Supervisory Voltage (speakers): 50VDC
Strobe Flash Rate: 1 flash per second
Nominal Voltage (strobes): Regulated 12VDC/FWR or regulated 24VDC/FWR
Operating Voltage Range (includes fire alarm panels with built-in sync): 8 to 17.5V (12V nominal) or 16 to 33V (24V nominal)
Operating Voltage with MDL Sync Module: 9 to 17.5V (12V nominal) or 17 to 33V (24V nominal)
Frequency Range: 400 to 4000 Hz
Power: ¼, ½, 1, 2 watts

Agency Listings and Approvals
In some cases, certain modules may not be listed by certain approval agencies, or listing may be in progress. Consult factory for latest listing status.
- UL/ULC Listed: S4048
- MEA: 10-08-E
- CSFM: 7320-1653:201
- FM Approved
The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1Hz over the frequency range of 400 to 4000Hz. Speaker shall have power taps which are selected by rotary switch. The speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4000Hz. Speaker shall have power taps which are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

### Architectural/Engineering Specifications

**GENERAL**

SpectrAlert Advance speaker and speaker strobes shall mount to a 4" x 4" x 2-1/8" backbox. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance speaker strobes, 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 24v 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. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F. Speaker shall have power taps and voltage that are approved for fire protective service. The speaker shall have a frequency range of 400 to 4000Hz and shall have an operating temperature between 32°F and 120°F. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4000Hz. Speaker shall have power taps which are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

**ACCESSORIES**

- **Wall mount trim ring**, red, package of 5.
- **Ceiling mount trim ring**, white, package of 5.
- **Wall mount trim ring**, white, package of 5.
- **Ceiling mount trim ring**, red, package of 5.
- **Wall mount, metal weatherproof backbox**
- **Ceiling mount, metal weatherproof backbox**
- **Wall mount backbox skirt**, red.
- **Ceiling mount backbox skirt**, red.
- **Speaker strobe, selectable candela (15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185).**
- **Speaker strobe, selectable candela, high dB.**

**SYNCHRONIZATION MODULE**

The module shall be a System Sensor Sync Circuit model MDL listed to UL/ULC 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz. The module shall mount to a 4-11/16" x 4-11/16" x 2-1/8" 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.

**Ordering Information**

- **SP(W)(R)(A)**: Speaker only.
- **SP(W)(R)(V)(A)**: Speaker only, high dB.
- **SPS(W)(R)(A)**: Speaker strobe, selectable candela (15, 15/75, 30, 75, 95, 110, 115).
- **SPS(W)(R)(H)(A)**: Speaker strobe, selectable candela, high cd (135, 150, 177, 185).
- **SPS(W)(R)(V)(H)(A)**: Speaker strobe, selectable candela, high dB.

**WALL MOUNT**

- **SP(W)(R)(A)**: Speaker only.
- **SP(W)(R)(V)(A)**: Speaker only, high dB.
- **SPS(W)(R)(A)**: Speaker strobe, selectable candela (15, 15/75, 30, 75, 95, 110, 115).
- **SPS(W)(R)(H)(A)**: Speaker strobe, selectable candela, high cd (135, 150, 177, 185).
- **SPS(W)(R)(V)(A)**: Speaker strobe, selectable candela, high dB.

**CEILING MOUNT**

- **SPC(W)(R)(A)**: Speaker only.
- **SPC(W)(R)(V)(A)**: Speaker only, high dB.
- **SPSC(W)(R)(A)**: Speaker strobe, selectable candela (15, 15/75, 30, 75, 95, 110, 115).
- **SPSC(W)(R)(H)(A)**: Speaker strobe, selectable candela, high cd (135, 150, 177, 185).
- **SPSC(W)(R)(V)(A)**: Speaker strobe, selectable candela, high dB.

**Sound Output**

<table>
<thead>
<tr>
<th>UL Reberant (dBA @ 10ft)</th>
<th>2W</th>
<th>1W</th>
<th>½W</th>
<th>¼W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Mount SP Series</td>
<td>86</td>
<td>83</td>
<td>80</td>
<td>77</td>
</tr>
<tr>
<td>Wall Mount SPV Series</td>
<td>90</td>
<td>87</td>
<td>84</td>
<td>81</td>
</tr>
<tr>
<td>Ceiling Mount SPC Series</td>
<td>86</td>
<td>83</td>
<td>80</td>
<td>77</td>
</tr>
<tr>
<td>Ceiling Mount SPCV Series</td>
<td>90</td>
<td>87</td>
<td>84</td>
<td>81</td>
</tr>
<tr>
<td>Wall Mount SPS Series</td>
<td>85</td>
<td>82</td>
<td>79</td>
<td>76</td>
</tr>
<tr>
<td>Wall Mount SPSV Series</td>
<td>89</td>
<td>85</td>
<td>83</td>
<td>80</td>
</tr>
<tr>
<td>Ceiling Mount SPSC Series</td>
<td>85</td>
<td>82</td>
<td>79</td>
<td>76</td>
</tr>
<tr>
<td>Ceiling Mount SPSCV Series</td>
<td>89</td>
<td>86</td>
<td>83</td>
<td>80</td>
</tr>
</tbody>
</table>

*SpectrAlert® is a registered trademark of Honeywell International Inc. ©2011 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.*