



by Honeywell

SpectrAlert® Advance Indoor Notification Appliances

Description

The SpectrAlert® Advance Series of speakers and speaker strobes are designed for ease of installation and 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 model speaker offers high fidelity sound output, while the SPV model speaker offers high volume sound output for use in high ambient noise applications.

SpectrAlert Advance makes installation easy

1. 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.
2. Connect the notification appliance circuit or speaker wiring to the PEMS terminals on the mounting plate.
3. Attach the speaker or speaker strobe to the mounting plate by inserting the product tabs into the mounting plate grooves.
4. 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.

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Indoor Selectable Output Speaker Strobes and Dual Voltage Evacuation Speakers

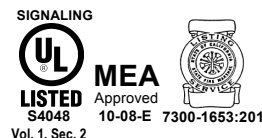


SpectrAlert Advance

Features

- Plug-in design
- Protective cover isolates speaker components, reduces ground faults
- Electrical compatibility with existing SpectrAlert products
- Field selectable candela settings on wall & 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- & ceiling-mount units
- Compatible with System Sensor synchronization protocol
- SP model speakers offer high fidelity sound output
- SPV model 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

An ISO 9000-2000 Company



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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. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Speaker strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Speaker

The speaker shall be a System Sensor SpectrAlert Advance model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be listed to UL® 1480 and shall be 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 have power taps and voltage that are selected by rotary switches.

Speaker Strobe Combination

The speaker strobe shall be a System Sensor SpectrAlert Advance model _____ Listed to UL 1480 and UL 1971 and be approved for fire protective signaling systems. 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.

Synchronization Module

The module shall be a System Sensor Sync Circuit model MDL listed to UL 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.

UL Maximum Strobe Current Draw (mA RMS)					
	Candela	8 to 17.5 Volts		16 to 33 Volts	
		DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	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

Sound Output				
UL Reverberant (dBA@10 ft)	2 W	1 W	1/2 W	1/4 W
Wall Mount SP Series	86	83	80	77
Wall Mount SPV Series	90	87	84	81
Ceiling Mount SPC Series	86	83	80	77
Ceiling Mount SPCV Series	90	87	84	81
Wall Mount SPS Series	85	82	79	76
Wall Mount SPSV Series	89	86	83	80
Ceiling Mount SPSC Series	85	82	79	76
Ceiling Mount SPSCV Series	89	86	83	80

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Specifications

Physical Specifications

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

Humidity Range: 10 to 93% non-condensing

Wall-Mount Dimensions:

SP 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

SPSV Speaker: 6.0"L x 5.0"W x 2.9"D

Ceiling-Mount Dimensions:

SPS Speaker Strobe: 6.8"Dia x 4.7"D
(includes lens and speaker)

SPSV Speaker Strobe: 6.8"Dia x 4.8"D
(includes lens and speaker)

SP Speaker: 6.8"Dia x 2.8"D

SPSV 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 panels with built-in sync): 8 to 17.5V (12V nominal) or
16 to 33V (24 nominal)

Operating Voltage with MDL Sync Module: 9 to 17.5V (12V nominal) or
17 to 33V (24V nominal)

Frequency Range: 400 to 4000Hz

Power: ¼, ½, 1, 2 watts

Ordering Information

Part Number Description

Wall Mount

NOTE1: Add -P to model number for plain housing
(no 'FIRE' marking on the cover), e.g. SPSW-P.

NOTE2: (W) indicates white coloring; (R), red.

SP(W)(R): Speaker only

SP(W)(R)V: Speaker only, high dB; white

SPS(W)(R)*: Speaker strobe, selectable candela
(15, 15/75, 30, 75, 95, 100, 115)

SPS(W)(R)H*: Speaker strobe, selectable candela,
high
cd (135, 150, 177, 185)

SPS(W)(R)V*: Speaker strobe, selectable candela,
high dB

Ceiling Mount

SPC(W)(R): Speaker only

SPC(W)(R)V: Speaker only, high dB

SPSC(W*)(R): Speaker strobe, selectable candela
(15, 15/75, 30, 50, 75, 95, 110, 115)

SPSC(W*)(R)H: Speaker strobe, selectable candela,
high cd (135, 150, 177, 185)

SPSC(W*)(R)V: Speaker strobe, selectable candela,
high dB
(15, 15/75, 30, 50, 75, 95, 110, 115)

SPSC(W*)(R)VH: Speaker strobe, selectable candela,
high dB, high cd (135, 150, 177, 185)

Accessories

RFP: Retrofit plate, red

RFPW: Retrofit plate, white

SPBBSC: Ceiling mount backbox skirt, red

SPBBSCW: Ceiling mount backbox skirt, white

SPBBS: Wall mount backbox skirt, red

SPBBSW: Wall mount backbox skirt, white

TR: Wall mount trim ring, red

TRW: Wall mount trim ring, white

TRC: Ceiling mount trim ring, red

TRCW: Ceiling mount trim ring, white

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