

Harrington Signal Inc.
 2519 4th Avenue, Moline, Illinois 61265
 P.O. Box 590, Moline, Illinois 61266-0590
 Phone: (800) 577-5758 Local: (309) 762-0731 Fax: (309) 762-8215
 Internet: www.harringtonfire.com



Description

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 ambient noise applications.

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 (25 and 70.7 Vrms) and power settings (1/4, 1/2, 1 and 2 watts)
- Universal mounting plate for all 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

Ordering Information

Model Number	Part Number	Description
SPSW	SPSW	Speaker Strobe, Selectable Candela, White
SPSR	SPSR	Speaker Strobe, Selectable Candela, Red
SPCW	SPCW	Speaker only, White
SPCR	SPCR	Speaker only, Red
SPCWV	SPCWV	Speaker only, High dB
SPSCW	SPSCW	Ceiling Mount, Speaker Strobe, Selectable Candela, White
SPSCR	SPSCR	Ceiling Mount, Speaker Strobe, Selectable Candela, Red



SpectrAlert

Indoor Speaker Strobes and Evacuation Speakers

Architectural/Engineering Specifications

SpectrAlert Advance speaker and speaker strobes shall mount to a 4 x 4 x 2 1/8" back box. 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 24 volts. When used with the Sync-Circuit Module, 12 volt rated notification appliance circuit outputs shall operate between 9 and 175 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 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.

The speaker shall be a Harrington Signal SpectrAlert 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 4000 Hz 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.

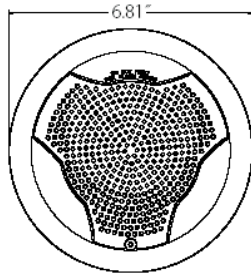
The speaker strobe shall be a Harrington Signal SpectrAlert model _____ listed to UL 1480 and UL 1971 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 Vrms selected via rotary switch, and shall have a frequency range of 400 to 4000 Hz. Speaker shall have power taps which are selected by rotary switch. The strobe shall comply with the NFPA72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Physical Specifications

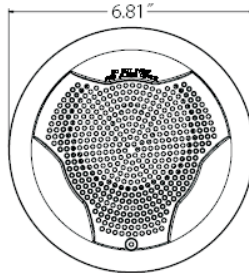
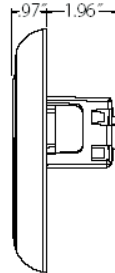
Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Dimensions, Wall Mount	
SPS Speaker Strobe	6.0" L x 5.0" W x 4.7" D (including lens and speaker)
SPSV Speaker Strobe	6.0" L x 5.0" W x 4.9" D (including lens and speaker)
SP Speaker	6.0" L x 5.0" W x 2.8" D
SPSV Speaker	6.0" L x 5.0" W x 2.9" D
Dimensions, Ceiling Mount	
SPS Speaker Strobe	6.8" Dia. X 4.7" D (including lens and speaker)
SPSV Speaker Strobe	6.8" Dia. X 4.8" D (including 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)	50 VDC
Strobe Flash Rate	1 flash per second
Nominal Voltage (strobes)	Regulated 12 VDC/FWR or regulated 24 DC/FWR
Operating Voltage Range (includes fire alarm panels with built in sync)	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Operating Voltage with MDL Sync Module	9 to 17.5 V (12 V nominal) or 17 to 33 V (24 V nominal)
Frequency Range	400 to 4000 Hz
Power	1/4, 1/2, 1, 2 watts



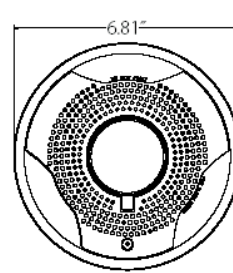
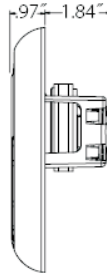
Dimensions



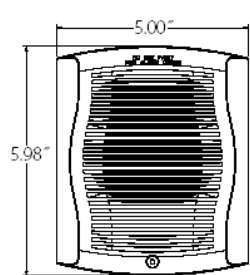
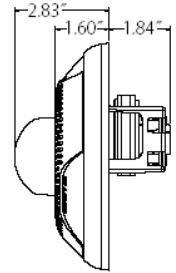
Ceiling Mount SPV Speaker



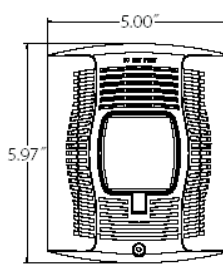
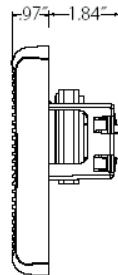
Ceiling Mount SP Speaker



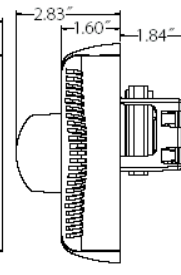
Ceiling Mount SPS Speaker Strobe



Wall Mount SP Speaker



Wall Mount SPS Speaker Strobe



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UL Current Draw Data

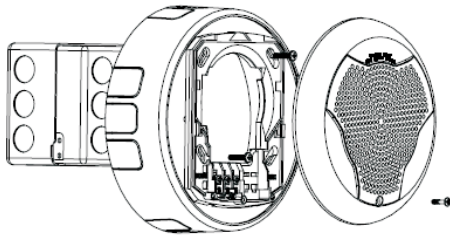
UL Maximum Strobe Current Draw (mA RMS)

	Candela	8 to 17.5 Volts		16 to 33 Volts	
		DC	FWR	DC	FWR
Standard	15	123	128	66	71
Candela Range	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

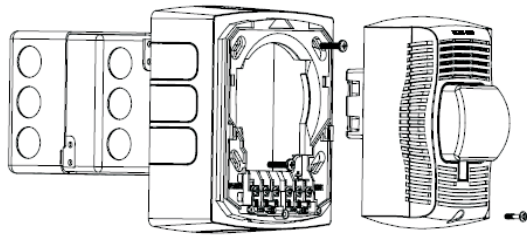
Sound Output

UL Revererant (dBA @ 10 ft.)	2W	1W	1/2W	1/4W
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

Surface Mounting



Ceiling Mount Speaker with SPBBS Back Box Skirt



Wall Mount Speaker Strobe with SPBBS Back Box Skirt

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice. Quality manufactured for Harrington Signal Inc. by System Sensor.