SpectrAlert® Advance Outdoor Notification Appliances

by Honeywell

Outdoor Selectable Output Speaker Strobes and Dual Voltage Evacuation Speakers

Description

The SpectrAlert® Advance series offers the broadest line of outdoor speakers and speaker strobes in the industry. From metal and plastic outdoor back boxes, to white and red plastic housings, to wall and ceiling mounting options, virtually every application is covered. SpectrAlert Advance outdoor speakers and speaker strobes offer reliable operation over the entire temperature range of -40°F to 151°F. They may be used indoors or outdoors in wet or dry applications. In addition, these speakers provide a broad frequency response range and low harmonic distortion to provide an accurate and intelligible broadcast of evacuation messages. High sound pressure level at all tap settings ensures that messages are clearly heard.

The plug-in design allows the installer to pre-wire mounting plates and dress the wires before plugging in the speakers to help reduce ground faults. 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 field selectable candela settings for wall and ceiling speaker strobes.

The weatherproof back boxes have plastic and metal versions. They are designed to accommodate in-and-out wiring for daisy chaining outdoor devices. The plastic weatherproof back boxes are shipped with the product feature removable side flanges and have improved resistance to salt water corrosion. The screw hole knockouts, located on the back of the weatherproof back box, eliminate the need to drill holes for screw-in mounting. Both weatherproof back boxes are available with 3/4 inch top and bottom conduit entries and 3/4 inch knock-outs at the back. Included with each back box is a screw-in NPT plug with an O-ring gasket for a watertight seal. Metal back boxes are available separately.

SpectrAlert Advance

Features

- Plug-in design
- Electrical compatibility with existing SpectrAlert products
- 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
- Weatherproof per NEMA 4x, IP56
- Compatible with System Sensor synchronization protocol
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field selectable candela settings on wall and ceiling units
- Ceiling and wall mount application

An ISO 9000-2000 Company

SIGNALING

UL LISTED
S4048
Vol. 1, Sec. 2

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Architectural/Engineering Specifications

General
SpectrAlert Advance outdoor speaker and speaker strobes shall mount to a weatherproof 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. Outdoor SpectrAlert Advance products shall operate between –40°F and 151°F from a regulated DC, or full-wave rectified, unfiltered power supply.

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. Speaker shall be Listed to UL® Standard S4048 for outdoor fire protective signaling systems. Speaker shall have a frequency range of 400 to 4000 Hz and shall have an operating temperature from –40°F to 150.8°F. Speaker shall have power taps and wattage settings which are selected by rotary switches. The speaker must be installed with its weatherproof backbox in order to remain outdoor approved per UL listing S4048. The speaker shall be suitable for use in air handling spaces, as well as wet environments.

Speaker Strobe Combination
The Speaker Strobe shall be a System Sensor Model _____ listed to UL 1638 and UL 1480 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms, and shall have a frequency range of 400 to 4000 Hz. Speaker shall have power taps that are selected by rotary switch. The strobe shall consist of a xenon flash tube with associated lens/reflector system and operate on either 12V or 24V. The strobe shall also feature selectable candela output, providing options for 15 or 15/75 candela when operating on 12V and 15, 15/75, 30, 75, 110, 115, 135, 150, 177 or 185 when operating on 24V. The strobe shall comply with the Americans with Disabilities Act requirement for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The speaker strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The speaker strobe shall be suitable for use in wet environments.

Sound Output				
UL Reverberant (dBA@10 ft)	2 W	1 W	1/2 W	1/4 W
Outdoor Speaker	90	87	84	81
Outdoor Speaker/Speaker Strobe	89	86	83	80

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
	vmvm95	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

Candela Derating
NOTE: For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)	
Listed Candela	Candela Rating at -40 F
15	Do not use below 32 F
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Specifications

Physical Specifications

Operting Temperature:	-40°F to 151°F (-40°C to 66°C)

Wall-Mount Dimensions:

SPS 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 2.9"D

Ceiling Mount Dimensions:

SPS Speaker Strobe:	6.8"Dia x 4.8"D (including lens and speaker)
SP Speaker:	6.8"L x 2.9"D

Wall-Mount Weatherproof Backbox:

Dimensions:	6.5"L x 5.5"H x 2.9"D

Ceiling-Mount Weatherproof Backbox:

Dimensions:	7.2"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 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
SPWK:	Wall mount outdoor speaker; white
SPRK:	Wall mount outdoor speaker; red
SPSWK:	Wall mount outdoor speaker strobe, selectable candela (15, 15/75, 30, 75, 95, 100, 115); white
SPSRK:	Wall mount outdoor speaker strobe, selectable candela (15, 15/75, 30, 75, 95, 100, 115); red
SPCWK:	Ceiling mount outdoor speaker; white.
SPSCWK:	Ceiling mount outdoor speaker strobe, selectable candela (15, 15/75, 30, 50, 75, 95, 110, 115); white
SPSCWHK:	Ceiling mount outdoor speaker strobe, selectable candela, high cd (135, 150, 177, 185); white

Accessories

MWBB:	Wall, metal weatherproof backbox; red
MWBBW:	Wall, metal weatherproof backbox; white
MWBBCW:	Ceiling, metal weatherproof backbox; white
PWBB:	Wall, plastic weatherproof backbox; red
PWBBW:	Wall, plastic weatherproof backbox; white
PWBBCW:	Ceiling, plastic weatherproof backbox; white