



Field-Selectable Emergency Communications Devices

SpectrAlert® Advance emergency communications devices and accessories combine application versatility with all the time- and money-saving benefits of the SpectrAlert Advance line.



SEP-SPSW Speaker Strobe Expander Plate
(Speaker Strobe Device Sold Separately)



Emergency Communications Features:

- Plain or ALERT-printed white housings
- Amber lens strobes and speaker strobes
- Color lens attachments for use with clear lens wall or ceiling strobes (See data sheet AVDS004)
- Dual Strobe Expander Plates for use with Strobe and Speaker Strobe devices (See data sheet AVDS013)
- Meets DOD specification requirements

SpectrAlert Advance Features:

- Plug-in design for simplified installation and troubleshooting
- Mounting plate shorting spring easily tests wiring continuity
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings of 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185 (please refer to Equivalent Candela Rating for UL 1971 Table)
- Rated from 32°F to 120°F (indoor devices); -40°F to 151°F (NEMA 4X, IP56 weatherproof devices)
- Optional tamper-resistant Torx head screw
- Compatible with System Sensor synchronization protocol

SpectrAlert Advance, the broadest and most versatile line of notification devices available, includes a wide range of devices to meet emergency communications application requirements.

ALERT-printed on white housings, SW-ALERT, SWH-ALERT, and SPSW-ALERT amber lens strobes and speaker strobes provide visual signaling for emergency communications in compliance with ANSI/UL 1638 — Standard for General Signaling Visible Appliances. Other ALERT-printed models provide clear lenses for use with color lens strobe attachments (amber, blue, green, and red) that easily attach to strobe and speaker strobe devices without a candela derating.

In addition, SpectrAlert Advance emergency communications devices include plain (non-printed) strobes, horn strobes, and speaker strobes. These devices, along with ALERT-printed devices and SpectrAlert Advance accessories, can meet a wide range of requirements for indoor and outdoor applications, including emergency communications, general signaling, severe weather, and emergency response.

All SpectrAlert Advance emergency communications and general signaling devices are compatible with the entire SpectrAlert Advance line and include all the same time- and money-saving innovations. For example, plug-in designs simplify installation and reduce costly ground faults; universal mounting plates with onboard shorting springs test wiring continuity to speed installation and protect devices from damage; and field-selectable settings provide versatility and enable installers to quickly set each device to meet application requirements.

Agency Listings ^{*}(outdoor) ^{**}(indoor and outdoor)



S4048 Speaker & Speaker Strobes
S4011 Horn Strobes**
S5512 Strobes
S3593 Strobes*, SW-ALERT
UL3594 SWH-ALERT



7125-1653:188 Horn Strobe**
7125-1653:186 Strobes
7125-1653:187 Strobes*
7125-1653:198 Alert Strobes
7320-1653:201 Speaker & Speaker Strobes**
7125-1653:186/
7300-1653:198 SW-CLR ALERT



APPROVED
3023572 Horn Strobes**
3030863 Speaker & Speaker Strobes

SpectrAlert® Advance Specifications

Architectural/Engineering Specifications

General

SpectrAlert Advance strobes and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 17/8-inch back box. SpectrAlert Advance speaker strobes shall mount to a 4 × 4 × 21/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring and amplifier 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 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes, horn strobes, and speaker strobes shall have field-selectable candela settings, including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 (clear lens strobes) and shall be approved for fire protective service or shall be approved for fire protective service as listed in ANSI/UL 1638 (amber lens strobes). 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 three-pattern and a non-temporal (continuous) pattern. These options shall be set by a multiple position switch. The horn and horn strobe models shall operate on a coded or non-coded power supply.

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 4,000 Hz. Speaker shall have power taps that are selected by rotary switch. The strobe shall comply with the NFPA 72 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.

Outdoor Products

SpectrAlert Advance outdoor strobes, horn strobes, and speaker strobes shall be listed for outdoor use by UL and shall operate between minus 40 degrees and 151 degrees Fahrenheit. The products shall be listed for use with a System Sensor outdoor/weatherproof back box with half-inch and three-fourths-inch conduit entries.

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 1 Hz and horns at temporal three. 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 41/16 × 41/16 × 21/8-inch back box. 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.

Color Lens Strobe Attachment

The System Sensor SpectrAlert Advance color lens attachments shall be approved for fire protective service as listed in UL 1638. The lens attachments shall only be used with (plain non-fire-printed) System Sensor strobe devices. They shall mount to any wall or ceiling strobe and be rated from minus 35 degrees to 151 degrees Fahrenheit.

Physical Specifications

Standard Operating Temperature	32°F to 120°F
K Series Operating Temperature	-40°F to 151°F
Humidity Range	10 to 93% non-condensing (indoor models)
Dimensions Wall-Mount Strobe and Horn Strobe (including lens)	5.6" L x 4.7" W x 2.5" D
SPS Speaker Strobe	6.0" L x 5.0" W x 4.7" D (including lens and speaker)
Dimensions Ceiling-Mount Strobe (including lens)	6.8" diameter x 2.5" D

Electrical/Operating Specifications

Nominal Voltage (strobes and horn strobes)	Regulated 12 DC/FWR or regulated 24 DC/FWR
Nominal Voltage (speakers)	25 V or 70.7 V (nominal)
Maximum Supervisory Voltage (speakers)	50 VDC
Operating Voltage Range	8 to 17.5 V (12 V nominal) or 17 to 33 V (24 V nominal)
Strobe Flash Rate	1 flash per second
Speaker Frequency Range	400 to 4,000 Hz
Speaker Power	¼, ½, 1, 2 watts

Speaker Sound Output

UL Reverberant (dBA @ 10 ft.)	2 W	1 W	1/2 W	1/4 W
Wall-Mount SPS Series	85	82	79	76
Wall-Mount SPV Series	90	87	84	81
Ceiling-Mount SPC Series	86	83	80	77
Ceiling-Mount SPCV Series	90	87	84	81

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)					
	Candela	8–17.5 Volts		16–33 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	135	NA	NA	228	207
Candela Range	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

Equivalent Candela Rating for UL 1971

Amber Lens Strobe Output (cd)		
Listed Candela	On-Axis Rating (UL 1638)	Equivalent cd Rating for UL 1971 Profile
15	15	12
15/75	15/75	15/75
30	30	24
75	75	60
95	95	75
110	110	85
115	115	90
135	135	110
150	150	120
177	177	140
185	185	150

Note: UL 1971 is not applicable to emergency communications devices, but these readings were obtained using the measurement procedure specified under UL 1971.

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)

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

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)

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

Candela Derating/Outdoor Devices

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

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

Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)											
Switch Position	Sound Pattern	dB	8–17.5 Volts		16–33 Volts		24-Volt Nominal				
			DC	FWR	DC	FWR	Reverberant		Anechoic		
							DC	FWR	DC	FWR	
1	Temporal	High	78	78	84	84	88	88	99	98	
2	Temporal	Medium	74	74	80	80	86	86	96	96	
3	Temporal	Low	71	73	76	76	83	80	94	89	
4	Non-Temporal	High	82	82	88	88	93	92	100	100	
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98	
6	Non-Temporal	Low	75	75	81	81	88	84	96	92	
7†	Coded	High	82	82	88	88	93	92	101	101	
8†	Coded	Medium	78	78	85	85	90	90	97	98	
9†	Coded	Low	75	75	81	81	88	85	96	92	

†Settings 7, 8 and 9 are not available on 2-wire horn strobe.

Ordering Information

Part No.	Description
Alert Devices	
SEP-SW	Strobe Expander Plate, White
SEP-SPSW	Speaker Strobe Expander Plate, White
SW-ALERT	Strobe, Standard cd, White, Amber Lens
SWH-ALERT	Strobe, High cd, White, Amber Lens
SW-CLR-ALERT	Strobe, Standard cd, White, Clear Lens
SCW-CLR-ALERT	Strobe, Standard cd, White, Clear Lens
SPSW-ALERT	Speaker Strobe, Standard cd, White, Amber Lens
SPSCW-CLR-ALERT	Speaker Strobe, Standard cd, White, Clear Lens
SPSW-CLR-ALERT	Speaker Strobe, Standard cd, White, Clear Lens
SPSWK-CLR-ALERT	Speaker Strobe, Standard cd, White, Clear Lens, Outdoor
SPSCWK-CLR-ALERT	Speaker Strobe, Standard cd, White, Clear Lens, Outdoor
Plain Wall Strobes	
SR-P	Standard cd, Red, Clear Lens
SRH-P	High cd, Red, Clear Lens
SW-P	Standard cd, White, Clear Lens
SWH-P	High cd, White, Clear Lens
SRK-P	Standard cd, Red, Clear Lens, Outdoor
SRHK-P	High cd, Red, Clear Lens, Outdoor
SWK-P	Standard cd, White, Clear Lens, Outdoor
SWHK-P	High cd, White, Clear Lens, Outdoor
Plain Ceiling Strobe	
SCW-P	Standard cd, White, Clear Lens
Plain Wall Horn Strobes	
P2R-P	Standard cd, Red, Clear Lens
P2W-P	Standard cd, White, Clear Lens
P2WH-P	High cd, White, Clear Lens
P2RK-P	Standard cd, Red, Clear Lens, Outdoor
P2RHK-P	High cd, Red, Clear Lens, Outdoor
P2WK-P	Standard cd, White, Clear Lens, Outdoor
P2WHK-P	High cd, White, Clear Lens, Outdoor

Notes:

All -P models have a plain housing (no "FIRE" marking on cover).

All outdoor units with a "K" designation in the part number include a weatherproof back box. All "ALERT" models are printed as such.

For information on colored lenses, see data sheet AVDS004.

For information on Dual Strobe Expander Plates, see data sheet AVDS013.

Part No.	Description
Plain Ceiling Horn Strobes	
PC2R-P	Standard cd, Red, Clear Lens
PC2W-P	Standard cd, White, Clear Lens
PC2WH-P	High cd, White, Clear Lens
Plain Wall Speaker Strobes	
SPSW-P	Standard cd, White, Clear Lens
SPSR-P	Standard cd, Red, Clear Lens
SPSWH-P	High cd, White, Clear Lens
SPSRH-P	High cd, Red, Clear Lens
SPSWV-P	Standard cd, White, High Volume, Clear Lens
SPSRV-P	Standard cd, Red, High Volume, Clear Lens
SPSWK-P	Standard cd, White, Clear Lens, Outdoor
SPSRK-P	Standard cd, Red, Clear Lens, Outdoor
Plain Ceiling Speaker Strobes	
SPSCW-P	Standard cd, White, Clear Lens
SPSCWH-P	High cd, White, Clear Lens
SPSCWV-P	High Volume, White, Clear Lens
SPSCWVH-P	High cd, High Volume, White, Clear Lens
SPSCWHK-P	High cd, White, Clear Lens, Outdoor
Colored Lenses	
LENS-B	Wall-Mount Lens Attachment, Blue
LENS-R	Wall-Mount Lens Attachment, Red
LENS-G	Wall-Mount Lens Attachment, Green
LENS-A	Wall-Mount Lens Attachment, Amber
LENS-BC	Ceiling-Mount Lens Attachment, Blue
LENS-RC	Ceiling-Mount Lens Attachment, Red
LENS-GC	Ceiling-Mount Lens Attachment, Green
LENS-AC	Ceiling-Mount Lens Attachment, Amber



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