



by Honeywell

SpectrAlert® Advance

Description

System Sensor SpectrAlert® Advance offers a variety of devices designed for mass notification, including plain devices for non-fire applications, amber lens strobes and speaker strobes, alert printed devices and color lens attachments.

System Sensor SpectrAlert Advance offers a wide range of mass notification devices, including plain non-fire printed devices, amber lens strobes and speaker strobes, alert printed devices and color lens strobe devices. The SW-ALERT, SWH-ALERT and SPSW-ALERT strobes and speaker strobes are designed with an amber colored lens mounted in a white housing to allow visual signaling for mass notification in compliance with ANSI/UL1638 – Standard for General Signaling Visible Appliances.

The SW-ALERT, SWH-ALERT and SPSW-ALERT amber lens strobes and speaker strobes provide simple installation and instant compatibility with SpectrAlert Advance synchronized systems. Additional ALERT models are available with clear lenses that can be used with color lens strobe attachments to meet requirements for a range of mass notification applications. Furthermore, SpectrAlert Advance includes a wide variety of non-fire printed devices, including indoor and outdoor strobes, horn strobes and speaker strobes.

As part of the SpectrAlert Advance line, all System Sensor mass notification devices include innovative features designed to increase product versatility and save time and money. For example, a plug-in design simplifies installation and reduces ground faults; a shorting spring on the mounting plate tests wiring continuity to speed installation and protect devices from damage; and field-selectable settings enable installers to quickly set each device to meet application requirements.

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Field-Selectable Mass Notification Devices



SPECTRAlert
ADVANCE

SpectrAlert

Features

- Electrically compatible with legacy SpectrAlert products
- 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 (refer to Candela Derating Table for equivalent candela ratings for UL 1971)
- Rated for 32°F to 120°F (0°C to 49°C)
- Plain weatherproof devices are NEMA 4X, IP56 (K designation in part number)
- Plug-in design
- Tamper resistant construction with Torx head mounting screw
- Shorting spring on mounting plate for continuity check before device installation
- Design minimizes device intrusion into the back box
- Housing can be either wall or ceiling mounted
- White plastic housings available with ALERT clearly visible in red letters
- Amber lens strobes and speaker strobes available
- Color lens attachments are easily used with any non-fire wall or ceiling strobe
- Compatible with System Sensor synchronization protocol

An ISO 9000-2000 Company

SIGNALING



ME A
Approved



S4011

452-05-E 7125-1653:188

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SpectrAlert® Advance SW-ALERT and SWH-ALERT Amber Lens Strobe Specifications Architectural/Engineering Specifications

General

SpectrAlert Advance strobes and horn strobes shall mount to a standard 4 x 4 x 11/2-inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2 x 4 x 17.8-inch back box. SpectrAlert Advance speaker strobes shall mount to a 4 x 4 x 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 UL1480 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 4000 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 411.16 x 411.16 x 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 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):	5.6½ L x 4.7½ W x 2.5½ D (14.2 L x 11.9 W x 6.35D cm)
SPS Speaker Strobe: (including lens and speaker)	6.0½ L x 5.0½ W x 4.7½ D (15.2 L x 12.7 W x 11.9 cm)

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Physical Specifications

Dimensions:

Ceiling-Mount Strobe (including lens): 6.8½ diameter x 2.5½ D
(17.2 diameter x 6.35 D cm)

SPS Speaker Strobe: (including lens & speaker) 6.8½ diameter x 4.8½ D
(17.2 D x 12.2 D cm)

Electrical/Operating Specifications

Nominal Voltage

(strobes & 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 4000 Hz

Speaker Power: ¼, ½, 1, 2 watts

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

		8 - 17.5 Volts		16 - 33 Volts	
Candela		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
High Candela Range	115	NA	NA	210	205
	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

Speaker Sound Output

Part No.

UL Reverberant (dBA @ 10 Ft.)	2W	1W	1/2W	1/4W
SPS Series	85	82	79	76

Two-Wire Horn/Strobe, STANDARD Candela Range (15 - 115 cd),

UL Maximum Current Draw (mA RMS)

DC Input	8 - 17.5 Volts		16 - 33 Volts						
	15	15/75	15	15/75	30	75	95	110	115
DC Input, Temporal High	137	147	79	90	107	176	194	212	218
DC Input, Temporal, Medium	132	144	69	80	97	157	182	201	210
DC Input, Temporal, Low	132	143	66	77	93	154	179	198	207
DC Input, Non-temporal, High	141	152	91	100	116	176	201	221	229
FWR Input, Non-temporal Medium	133	145	75	85	102	163	187	207	216
DC Input, Non-temporal, Low	131	144	68	79	96	156	182	201	210
FWR Input									
FWR Input, Temporal, High	136	155	88	97	112	168	190	210	218
FWR Input, Temporal, Medium	129	152	78	88	103	160	184	202	206
FWR Input, Temporal, Low	129	151	76	86	101	160	184	194	201
FWR Input, Non-temporal, High	142	161	103	112	126	181	203	221	229
FWR Input, Non-temporal, Medium	134	155	85	95	110	166	189	208	216
FWR Input, Non-temporal, Low	132	154	80	90	105	161	184	202	211

Two-Wire Horn/Strobe, HIGH Candela Range (135 - 185 cd),

UL Maximum Current Draw (mA RMS)

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

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Candela Derating	
For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.	
Strobe Output (cd)	Candela rating at -40°F
Listed Candela	
15	Do not use below 32 F
15/75	
30	
75	44
95	70

Candela Derating (Continued)	
Strobe Output (cd)	Candela rating at -40°F
110	110
115	115
135	135
150	150
177	177
185	185

Horn Tones and Sound Output Data Horn and Horn Strobe Output (dBA)										
Switch Position	Sound Pattern	dB	8-17.5		16-33		24-Volt Nominal			
			Volts		Volts		Reverberant		Anechoic	
			DC	FWR	DC	FWR	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 Number	Description	Part Number	Description
WALL STROBES		CEILING HORN STROBE	
SW-ALERT	Strobe, Standard cd, White, Amber Lens	PC2R-P	Horn Strobe, Standard cd, Red, Clear Lens
SWH-ALERT	Strobe, High cd, White, Amber Lens	PC2W-P	Horn Strobe, Standard cd, White, Clear Lens
SW-CLR-ALERT	Strobe, Standard cd, White, Clear Lens	PC2WH-P	Horn Strobe, High cd, White, Clear Lens
SR-P	Strobe, Standard cd, Red, Clear Lens	WALL SPEAKER STROBE	
SRH-P	Strobe, High cd, Red, Clear Lens	SPSW-ALERT	Speaker Strobe, Standard cd, White, Amber Lens
SW-P	Strobe, Standard cd, White, Clear Lens	SPSW-P	Speaker Strobe, Standard cd, White, Clear Lens
SWH-P	Strobe, High cd, White, Clear Lens	SPSR-P	Speaker Strobe, Standard cd, Red, Clear Lens
SRK-P	Strobe, Standard cd, Red, Clear Lens, Outdoor	SPSWH-P	Speaker Strobe, High cd, White, Clear Lens
SRHK-P	Strobe, High cd, Red, Clear Lens, Outdoor	SPSRH-P	Speaker Strobe, High cd, Red, Clear Lens
SWK-P	Strobe, Standard cd, White, Clear Lens, Outdoor	SPSW-P	Speaker Strobe, Standard cd, White, High Volume, Clear Lens
SWHK-P	Strobe, High cd, White, Clear Lens, Outdoor	SPSRV-P	Speaker Strobe, Standard cd, Red, High Volume, Clear Lens
CEILING STROBES		SPSWK-P	Speaker Strobe, Standard cd, White, Clear Lens, Outdoor
SCW-CLR-ALERT	Strobe, Standard cd, White, Clear Lens	SPSRK-P	Speaker Strobe, Standard cd, Red, Clear Lens, Outdoor
SCW-P	Strobe, Standard cd, White, Clear Lens	CEILING SPEAKER STROBE	
WALL HORNS/STROBES		SPSCW-CLR-ALERT	Speaker Strobe, Standard cd, White, Clear Lens
P2R-P	Horn Strobe, Standard cd, Red, Clear Lens	SPSCW-P	Speaker Strobe, Standard cd, White, Clear Lens
P2W-P	Horn Strobe, Standard cd, White, Clear Lens	SPSCWH-P	Speaker Strobe, High cd, White, Clear Lens
P2WH-P	Horn Strobe, High cd, White, Clear Lens	SPSCWV-P	Speaker Strobe, High Volume, White, Clear Lens
P2RK-P	Horn Strobe, Standard cd, Red, Clear Lens, Outdoor	SPSCWVH-P	Speaker Strobe, High cd, High Volume, White, Clear Lens
P2RHK-P	Horn Strobe, High cd, Red, Clear Lens, Outdoor		
P2WK-P	Horn Strobe, Standard cd, White, Clear Lens, Outdoor		
P2WHK-P	Horn Strobe, High cd, White, Clear Lens, Outdoor		

NOTE: 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.

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