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SILENT KNIGHT
by Honeywell

Audio/Visual Devices

The SpectrAlert® Advance

Field Selectable
Mass Notification Devices

General

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

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

ALERT-printed on white housings, SW-ALERT, SWH-ALERT and SPSW-ALERT amber lens strobes and speaker strobes provide visual signaling for mass notification 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 mass notification 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 mass notification, general signaling, severe weather and emergency response.

All SpectrAlert Advance mass notification and general signaling devices are compatible with the entire SpectrAlert Advance 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

Mass Notification 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
- 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
- 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

Agency Listings

SIGNALING UL LISTED
FM APPROVED
MEA approved 452-05-E









SpectrAlert® Advance Specifications

ARCHITECTURAL / ENGINEERING SPECIFICATIONS

GENERAL

SpectrAlert Advance strobes and horn strobes shall mount to a standard 4” x 4” x 1.5” 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 1 7/8” (5.08 x 10.16 x 4.76 cm) back box. SpectrAlert Advance speaker strobes shall mount to a 4 x 4 x 2 1/8-inch (10.16 x 10.16 x 5.40 cm) 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°F and 120°F (0°C and 49°C) 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.

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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 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 –40°F and 151°F (–40°C and 66°C). The products shall be listed for use with a System Sensor outdoor/weatherproof back box with ½ and ¾ " conduit entries.

SYNCHRONIZATION MODULE
The module shall be a System Sensor Sync•Circuit model MDL3R or MDL3W 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 4 11/16 x 4 11/16 x 2 1/8-inch (11.90 x 11.90 x 5.40 cm) 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 –35°F to 151°F (-37°C to 66°C).

Specifications

Physical

Standard Operating Temperature:	32°F to 120°F (0°C to 49°C)
K Series Operating Temperature:	-40°F to 151°F (-40°C to 66°C)
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 (including lens and speaker):	6.0" L x 5.0" W x 4.7" D
Ceiling-Mount Strobe (including lens):	6.8" diameter x 2.5" D

Electrical

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 4000 Hz
Speaker Power:	¼, ½, 1, 2 watts

SPEAKER SOUND OUTPUT

UL Reverberant (dBA @ 10 ft)	2W	1W	½W	¼W
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)					
		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
	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/Outdoor Devices Strobe Output (cd)

Listed Candela	Candela rating at –40°F (–40°C)
15	Do not use below 32° F (0°C)
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

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

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

	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
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	95	166	189	208	216
Non-Temporal Low	132	154	80	90	90	161	184	202	211

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

	16-33 Volts			
DC Input	**135**	**150**	**177**	**185**
Temporal High	245	259	290	297
Temporal Medium	235	253	288	297
Temporal Low	232	251	282	292
Non-Temporal High	255	270	303	309
Non-Temporal Medium	242	259	293	299
Non-Temporal Low	238	254	291	295

	16-33 Volts			
FWR Input	**135**	**150**	**177**	**185**
Temporal High	215	231	258	265
Temporal Medium	209	224	250	258
Temporal Low	207	221	248	256
Non-Temporal High	233	248	275	281
Non-Temporal Medium	219	232	262	267
Non-Temporal Low	214	229	256	262

Horn Tones and Sound Output Data

			8-17.5 Volts		16-33 Volts		Reverberant		Anechoic	
Switch Position	**Sound Pattern**	**dB**	**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

Alert Devices

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

PLAIN WALL STROBES

SR-P: Strobe, Standard cd, Red, Clear Lens
SRH-P: Strobe, High cd, Red, Clear Lens
SW-P: Strobe, Standard cd, White, Clear Lens
SWH-P: Strobe, High cd, White, Clear Lens
SRK-P: Strobe, Standard cd, Red, Clear Lens, Outdoor
SRHK-P: Strobe, High cd, Red, Clear Lens, Outdoor
SWK-P: Strobe, Standard cd, White, Clear Lens, Outdoor
SWHK-P: Strobe, High cd, White, Clear Lens, Outdoor
PLAIN CEILING STROBES
SCW-P: Strobe, Standard cd, White, Clear Lens

PLAIN WALL HORN STROBES

P2R-P: Horn Strobe, Standard cd, Red, Clear Lens
P2W-P: Horn Strobe, Standard cd, White, Clear Lens
P2WH-P: Horn Strobe, High cd, White, Clear Lens
P2RK-P: Horn Strobe, Standard cd, Red, Clear Lens, Outdoor
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

PLAIN CEILING HORN STROBE

PC2R-P: Horn Strobe, Standard cd, Red, Clear Lens
PC2W-P: Horn Strobe, Standard cd, White, Clear Lens
PC2WH-P: Horn Strobe, High cd, White, Clear Lens

PLAIN WALL SPEAKER STROBE

SPSW-P: Speaker Strobe, Standard cd, White, Clear Lens
SPSR-P: Speaker Strobe, Standard cd, Red, Clear Lens
SPSWH-P: Speaker Strobe, High cd, White, Clear Lens
SPSRH-P: Speaker Strobe, High cd, Red, Clear Lens
SPSWV-P: Speaker Strobe, Standard cd, White, High Volume, Clear Lens
SPSRV-P: Speaker Strobe, Standard cd, Red, High Volume, Clear Lens
SPSWK-P: Speaker Strobe, Standard cd, White, Clear Lens, Outdoor
SPSRK-P: Speaker Strobe, Standard cd, Red, Clear Lens, Outdoor

PLAIN CEILING SPEAKER STROBE

SPSCW-P: Speaker Strobe, Standard cd, White, Clear Lens
SPSCWH-P: Speaker Strobe, High cd, White, Clear Lens
SPSCWV-P: Speaker Strobe, White, High Volume, Clear Lens
SPSCWVH-P: Speaker Strobe, White, High cd, High Volume, Clear Lens

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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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight
12 Clintonville Road, Northford, CT 06472-1610 Phone: (800) 328-0103, Fax: (203) 484-7118.
www.farenhyt.com
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