SpectrAlert® Advance

Field-Selectable
Mass Notification Devices

NOTIFIER®
by Honeywell

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 (please refer to Equivalent Candela Rating for UL 1971 Table)
- Rated from 32°F to 120°F (0°C to 49°C) (indoor devices); -40°F to 151°F (-40°C to 66°C) (NEMA 4X, IP56 weatherproof devices)
- Optional tamper-resistant Torx head screw
- Compatible with System Sensor synchronization protocol

SPSCW-P with LENS-RC

SPSW-ALERT

SW-CLR-ALERT

SW-ALERT

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.

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 Ameri-

cans 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 half-inch and three-fourths-inch 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 SPECIFICATIONS

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/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 4000 Hz

Speaker Power: ¼, ½, 1, 2 watts

SPEAKER SOUND OUTPUT

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

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

	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	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)

	16–33 Volts			
	135	150	177	185
DC Input				
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
FWR Input				
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

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 mass notification devices, but these readings were obtained using the measurement procedure specified under UL 1971.*

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

Horn Tones and Sound Output Data (dBA)

Switch Position	Sound Pattern	dB	8–17.5 Volts		16–33 Volts		24-Volt Nominal			
							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.										

Product Line 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

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.*

Agency Listings

- **UL-Listed:**
  - S4048 Speaker & Speaker Strobes
  - S4011 Horn Strobes**
  - S5512 Strobes
  - S3593 Strobes*, SW-ALERT
  - UL3594 SWH-ALERT
- **CSFM-Listed:**
  - 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
- **FM Approved**
  - 3023572 Horn Strobes**
  - 3030863 Speaker & Speaker Strobes

*(outdoor)   **(indoor and outdoor)

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Made in the U.S. A.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

Strobe Wire Guard Damage Stopper®

For SPECTRAlert® Advance Devices

NOTIFIER®
by Honeywell

General

The Strobe Wire Guard Damage Stopper® is an excellent way to protect strobe units against both vandalism and accidental damage. These wire guards provide maximum protection for System Sensor SPECTRAlert Advance series strobe notification appliances. Constructed of tough, 9-gauge steel wire that is coated with corrosion resistant red or white polyester, these guards can take hard knocks in stride.

This Stopper is highly recommended for areas where abuse is severe or it is imperative that strobe units continue to operate.

Features

- Offers protection against vandalism and accidental damage SPECTRAlert Advance strobe units.
- Constructed of tough 9-gauge steel wire.
- Installation is fast and simple with screws and anchors provided.
- Simple removal for maintenance.
- Coated with corrosion resistant polyester.
- Guaranteed for a lifetime against breakage in normal use.

Product Line Information

STI9705: Strobe Wire Guard Damage Stopper® - White, Wall, Flush. System Sensor SpectrAlert Advance wall products: Horn strobes, Chime strobes, Strobe only.
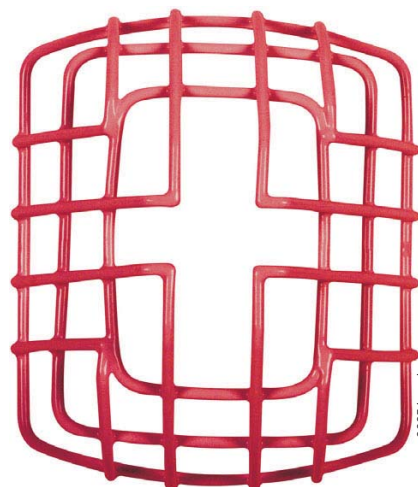
STI9705-R: Strobe Wire Guard Damage Stopper® - Strobe Wire Guard Damage Stopper ® - Red, Wall, Flush. System Sensor SpectrAlert Advance wall products: Horn strobes, Chime strobes, Strobe only.

STI9708: Strobe Wire Guard Damage Stopper® - Strobe Wire Guard Damage Stopper ® - White, Wall, Deep / Surface. System Sensor SpectrAlert Advance wall products: Speaker strobes, products listed above with a back box skirt and all outdoor wall models.

STI9708-R: Strobe Wire Guard Damage Stopper® - Strobe Wire Guard Damage Stopper ® - Red, Wall, Deep / Surface. System Sensor SpectrAlert Advance wall products: Speaker strobes, products listed above with a back box skirt and all outdoor wall models.

STI9711: Strobe Wire Guard Damage Stopper® - Strobe Wire Guard Damage Stopper ® - White, Ceiling, Flush. System Sensor SpectrAlert Advance ceiling products - all but speaker strobes.

STI9714: Strobe Wire Guard Damage Stopper® - Strobe Wire Guard Damage Stopper ® - White, Ceiling, Deep / Surface. System Sensor SpectrAlert Advance ceiling products - all including speaker strobes, outdoor and products used with a back box skirt.

60651cov.jpg

Specifications

Dimensions			
Model	**Height**	**Width**	**Depth**
STI-9705, STI-9705-R	7.40 in. (188mm)	6.15 in. (156mm)	3.39 in. (84mm)
STI-9708, STI-9708-R	7.49 in. (190mm)	6.74 in. (171mm)	6.09 in. (155mm)
STI-9711	8.26 in. (210mm)	8.26 in. (210mm)	3.54 in. (90mm)
STI-9714	8.55 in. (271mm)	8.55 in. (271mm)	6.23 in. (158mm)

Light De-Rating Factor	
Model	**% Light Loss**
STI-9705 and STI-9708	
System Sensor (SPSR, SPSR-SP, SPSR-PG, SPSW, SPSW-CLR-ALERT, SPSW-SP, SPSW-PG, SPSRV, SPSRV-SP, SPSRV-PG, SPSWV, SPSWV-SP, SPSWV-PG)	13.0%
System Sensor (SPSRH, SPSRH-SP, SPSRH-PG, SPSWH, SPSWH-SP, SPSWH-PG)	0%
STI-9711 and STI-9714	
System Sensor (SPSCWV, SPSCR, SPSCR-SP, SPSCRPG, SPSCW, SPSCW-SP, SPSCW-PG, SPSCRV, SPSCRV-PG, SPSCWV, SPSCWV-SP, SPSCWV-PG)	0%
System Sensor (SPSCWHV, SPSCRH, SPSCRH-SP, SPSCRH-PG, SPSCWH, SPSCWH-SP, SPSCWH-PG, SPSCRVH, SPSCRVH-SP, SPSCRVH-PG, SPSCWHV-SP, SPSCWHV-PG)	0%

Agency Listings and Approvals

These listings and approvals apply to the Strobe Wire Guard Damage Stopper®. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

• **UL/ULC:** S7025

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SEP-SW(A), SEP-SPSW(A)

Dual Strobe Expander Plates for Emergency Communications

NOTIFIER®
by Honeywell

General

The new SpectrAlert® Advance Dual Strobe and Dual Strobe with Speaker Expander Plates lower costs and improve aesthetics by performing the functions of 2-3 devices for emergency communications applications.

Cut costs, speed installation, and improve aesthetics on emergency communications applications that require fire and emergency warnings by combining the functions of two to three devices on a single mounting plate and back box. SpectrAlert Advance Dual Strobe and Dual Strobe with Speaker Expander Plates provide dual strobe and speaker strobe functionality that's easy for a single person to wire and install. Simply mount the plate to a junction box and connect the field wiring to the terminals. To complete the installation, hinge and attach the strobe or speaker strobe device with a single captured mounting screw.

Dual Strobe and Dual Strobe with Speaker Expander Plates are designed to be used in 12 or 24 volt, DC or FWR (full wave rectified) systems. Amber lens strobes are UL 1638-Listed (Visual Signaling Appliances) for Private Mode General Utility Signaling. A table is also provided to show the candela rating per the UL 1971 test procedures. All SpectrAlert Advance products are suitable for use in synchronized systems. The System Sensor MDL module may be used to provide synchronization.

NOTE: See installation document I56-3829-001R for mounting information details and restrictions.

Features

- UL 1638-Listed amber lens strobe included.
- Meets DOD specification requirements.
- Field-selectable candela settings:
  Standard: 15, 15/75, 30, 75, 95, 110, 115 (please refer to Equivalent Candela Rating for UL 1971 Table).
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela.
- Compatible with System Sensor synchronization protocol.
- Optional tamper-resistant screw included.
- Designed to be used in 12 or 24 volt, DC or FWR systems.
- Rated from 32°F to 120°F (0°C to 49°C).
- SEP-SPSW is compatible with and accomodates the installation of SPSW, SPSWH, SPSW-P, SPSWV, SPSWV-P, and SPSWH-P.
- SEP-SW is compatible with and accomodates the installation of SW, SWH, SW-P, and SWH-P.
- Used in flush-mounted and surface-mounted applications.

SEP-SW-SEP-SPSW.jpg

SEP-SW and SEP-SPSW
(Speaker Strobe Device Sold Separately)

Specifications

Operating Temperature: 32°F to 120°F (0°C to 49°C)

Relative Humidity: 10% – 93% non-condensing.

Strobe Flash Rate: 1 flash per second

Nominal Voltage (strobes): Regulated 12VDC/FWR or regulated 24DC/FWR

Operating Voltage Range (includes fire alarm panels with built in sync): 8 to 17.5V (12V nominal) or 16 to 33V (24V nominal)

Operating Voltage with MDL Sync Module: 9 to 17.5V (12V nominal) or 17 to 33V (24V nominal)

Input terminal wire gauge: 12 to 18 AWG

DIMENSIONS

Expander Plate Only:
- **SEP-SW:** 4 in x 4 in x 1.5 in single gang, double gang, 4 in octagon
- **SEP-SPSW:** 4 in x 4 in x 2.125 in or deeper

Expander Plate with Strobe or Speaker Strobe Device:
- **SEP-SW & SEP-SPSW:** L 9.6 in (245 mm) W 5.1 in (130 mm) D 3.7 in (94 mm)
- **SPSEP-BBSW & SEP-BBSW:** L 10.1 in (257 mm) W 5.6 in (142 mm) D 2.5 in (64 mm)

Back Box Skirts:
- **SPSEP-BBSW & SEP-BBSW:** 4 in x 4 in x 2.125 in

Shipping Weight:
- **SEP-SW & SEP-SPSW:** 0.88 lb (0.4 kg)
- **SPSEP-BBSW & SEP-BBSW:** 0.69 lb (0.31 kg)

UL Current Draw Data

UL Max. Strobe Current Draw (mA) for SEP-SW, SEP-SPSW: (Amber Strobe Only)

		8 to 17.5 V		16 to 33 V	
	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

Candela Derating for Amber Lens Strobe

Cd Switch Setting	On-Axis Rating (UL 1638)	Equivalent Cd Rating for Wall profile (UL 1971*)
15	15	12
15/75	15/75	15/75
30	30	24
75	75	60
95	95	75
110	110	85
115	115	90

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

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

• **UL Listed:** S3593.
• **ULC Listed:** S5512
• **CSFM:** 7300-1653:0221.
• **FM Approved.**

Product Line Information

NOTE: *"A" suffix indicates ULC Listed model.*

SEP-SW(A): Strobe Expander Plate for use with SW, SWH-P, and SWH-P; includes amber lens strobe.

SEP-BBSW: Back Box Skirt for use with SW, SWH, SW-P, and SWH-P.

SEP-SPSW(A): Speaker Strobe Expander Plate for use with SPSW, SPSWH, SPSW-P, SPSWV, SPSWV-P, and SPSWH-P; includes amber lens strobe.

SPSEP-BBSW: Back Box Skirt for use with SPSW, SPSWH, SPSW-P, SPSWV, SPSWV-P, and SPSWH-P.

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Field-Selectable Emergency Communications Devices

Audio/Visual Devices

General

The L-Series emergency communications devices and accessories combine application versatility with all the time- and money-saving benefits of the L-Series line.

The L-Series of Audio Visual devices has the broadest and most versatile line of notification devices available. It includes a wide range of devices to meet emergency communications application requirements.

ALERT-printed on white housings 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 Plain or 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, L-Series emergency communications devices include plain (non-printed) strobes, horn strobes, and speaker strobes. These devices, along with ALERT-printed devices and L-Series accessories, can meet a wide range of requirements for indoor applications, including emergency communications, general signaling, severe weather, and emergency response.

All L-Series emergency communications and general signaling devices are compatible with the entire L-Series line and include all the same time- and money-saving innovations. For example, plug in design simplifies installation and reduces 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.

Emergency Communications Features

- Plain or ALERT-printed white housings.
- Clear or Amber lens strobes and speaker strobes.
- Color lens attachments for use with clear lens wall or ceiling strobes.
- Meets DoD specification requirements.

L-Series Features

- Plug-in design for simplified installation.
- Mounting plate shorting spring easily tests wiring continuity.
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela.
- Field-selectable candela settings of:
  – Wall: 15, 30, 75, 95, 110, 135, 185.
  – Ceiling: 15, 30, 75, 95, 115, 150, 177.
- Rated from 32°F to 120°F (indoor devices).
- Optional tamper-resistant Torx head screw.
- Compatible with System Sensor synchronization protocol.
- UL 464 (520 Hz) listed and complies with NFPA 72 requirements for low frequency with compatible fire alarm control panel.

SPSCWL-CLR-ALERT, P2GRL-P, SWL-CLR-ALERT

L-Series Specifications

ARCHITECTURAL/ENGINEERING SPECIFICATIONS

General: System Sensor L-Series strobes and horn strobes shall mount to a standard 4" × 4" × 1½" back box, 4" octagon back box, or double-gang back box. L-Series Compact shall mount to a single-gang 2" × 4" × 1$^7/_8$" back box. L-Series 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 wiring and amplifier wiring shall terminate at the universal mounting plate. Also, L-Series 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 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series 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, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe: The clear strobe shall be a System Sensor L-Series Model _____ listed to UL 1971 and shall be approved for fire protective service. Colored lens strobes shall be listed to ANSI/UL 1638 and shall be approved for Private Mode Emergency. 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 L-Series 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 L-Series 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.

Synchronization Module: The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize L-Series 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 $4^{11}/_{16}$" × $4^{11}/_{16}$" × $2^{1}/_{8}$" 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 L-Series 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 (0°C to 49°C)
- **Humidity Range:** 10 to 93% non-condensing.
- **Dimensions**
  - **Wall-Mount Strobe and Horn Strobe (including lens):** 5.6" L x 4.7" W x 1.25" D.
  - **SPS Speaker Strobe:** 6.5" L x 5.0" W x 2.3" D (including lens and speaker)
  - **Ceiling-Mount Strobe (including lens):** 6.8" diameter x 2.8" D

Electrical/Operating Specifications

- **Nominal Voltage (strobes and horn strobes):** Regulated 12 VDC 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).
- **Operating Voltage Range with MDL3:** 8.5 to 17.5 (12V nominal) or 16.5 to 33V (24V 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	½ W	¼ W
Wall-Mount SPS Series	88	85	82	79
Ceiling-Mount SPC Series	88	85	82	79

UL Current Draw Data

UL MAX. STROBE CURRENT DRAW (MA RMS)

Candela	8-17.5 Volts DC	16-33 Volts DC	FWR
5	87	41	60
30	153	63	86
75	N/A	111	142
95	N/A	134	164
110	N/A	148	179
115	N/A	158	191
135	N/A	172	209
150	N/A	189	228
177	N/A	226	264
185	N/A	222	257

Wall Candela Settings: 15, 30, 75, 95, 115, 150, 177
Ceiling Candela Settings: 15, 30, 75, 95, 110, 135, 185

UL MAX. CURRENT DRAW (MA RMS), 2-WIRE HORN STROBE

	DC Input: 8-17.5 Volts		DC Input: 16-33 Volts										FWR Input: 16 FWR									
	15 cd	30 cd	15 cd	30 cd	75 cd	95 cd	110 cd	115 cd	135 cd	150 cd	175 cd	185 cd	15 cd	30 cd	75 cd	95 cd	110 cd	115 cd	135 cd	150 cd	175 cd	185 cd
Temporal High	15	30	54	74	121	142	162	187	196	217	254	245	83	107	156	177	198	223	234	254	286	287
Temporal Low	98	158	44	65	111	133	157	185	184	211	249	235	68	91	145	165	185	199	223	229	262	271
Non-Temporal High	93	154	73	94	139	160	182	187	211	230	273	262	108	135	181	207	230	223	264	254	286	315
Non-TemporalLow	106	166	51	71	119	139	162	170	190	216	258	239	79	104	157	175	197	199	235	229	262	281
3.1K Temporal High	93	156	53	73	119	140	164	184	190	229	257	242	81	105	155	177	196	225	234	255	289	284
3.1K Temporal Low	93	156	45	66	112	133	160	185	185	212	252	235	68	90	145	166	186	196	222	229	260	276
3.1K Non-Temporal High	91	154	69	90	135	157	175	202	208	229	271	261	101	131	176	204	230	225	264	255	289	326
3.1K Non-Temporal Low	99	162	52	72	119	138	162	187	192	217	259	242	77	102	156	177	199	196	234	229	260	291

The 3.1k is the sound of the mini-horns. The EM (which stands for Electro-mechanical) is the sound of the SpectrAlert Advance line which uses an algorithm that hops frequencies between 2Hz and 4Hz.

HORN TONES AND SOUND OUTPUT DATA: HORN AND HORN STROBE OUTPUT (DBA)

The 3.1k is the sound of the mini-horns. The EM (which stands for Electro-mechanical) is the sound of the SpectrAlert Advance line which uses an algorithm that hops frequencies between 2Hz and 4Hz. In the coded positions, temporal coding

Position	Sound Pattern	8-17.5 Volts	16-33 Volts		8-17.5 Volts
		DC	DC	FWR	DC
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83
9†	Coded	High	85	90	90
10†	3.1 KHz Coded	High	84	89	89

must be provided by the NAC. If the NAC voltage is held constant, the horn output will remain constantly on.

†Settings 9 and 10 are not available on the 2-wire horn strobes.

Agency Listings and Approvals

The listings and approvals below apply to L-series devices. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL-Listed**
  - S4048 Plain Wall Speaker Strobes
  - S4048 Plain Ceiling Speaker Strobes
  - S4048 Speaker Strobe ALERT devices
- **UL/ULC-Listed**
  - S5512 Colored Lenses
  - S5512 Plain Wall Strobes
  - S4011 Plain Wall Horn Strobes
  - S5512 Strobe-only ALERT devices
- **FM Approved** (Except ALERT models and colored lenses)
- **CSFM Listed:**
  - 7125-1653:0504 (Colored lenses, Plain Wall Strobes, Plain Wall Horn Strobes, Plain Wall Speaker Strobes, Plain Ceiling Speaker Strobes, Strobe-only ALERT models)
  - 7320-1653:0505 (Speaker-strobe ALERT models)

Product Line Information

NOTE: Add "-P" suffix for plain housing (no "FIRE" marking on cover).

NOTE: Add "-ALERT" suffix for "ALERT" marking on cover.

NOTE: "A" suffix indicates ULC-Listed model. ULC-listed devices include required French labeling. See Agency Listings for listing details.

NOTE: "A" suffix indicates ULC-listed models, ULC models have FIRE/FEU marking on cover.

ALERT DEVICES

SWL-CLR-ALERT. Strobe, Wall, Clear Lens, ALERT (White).

SWL-ALERT. Strobe, Wall, Amber Lens, ALERT (White).

SCWL-CLR-ALERT. Strobe, Ceiling, Clear Lens, ALERT (White).

SPSWL-ALERT. Speaker Strobe, Wall, Amber Lens, ALERT (White) (UL/ULC-listed).

SPSWL-CLR-ALERT. Speaker Strobe, White, Wall, Clear Lens, ALERT (UL/ULC-listed).

SPSCWL-CLR-ALERT. Speaker Strobe, Ceiling, Clear Lens, ALERT (UL/ULC-listed).

PLAIN WALL STROBES

SWL-P, SRL-P. Strobe, Wall, Plain (White, Red).

PLAIN WALL HORN STROBES

P2WL(A)-P, P2RL(A)-P. Horn Strobe, Wall, Plain (White, Red).

PLAIN WALL SPEAKER STROBES

SPSWL(A)-P, SPSRL(A)-P. Speaker Strobe, Wall, Plain (White, Red).

PLAIN CEILING SPEAKER STROBES

SPSCWL(A)-P. Speaker Strobe, Ceiling, Plain (White).

COLORED LENSES

LENS-A2. Wall-Mount Lens Attachment, Amber.

LENS-B2. Wall-Mount Lens Attachment, Blue.

LENS-G2. Wall-Mount Lens Attachment, Green.

LENS-R2. Wall-Mount Lens Attachment, Red.

LENS-AC2. Ceiling-Mount Lens Attachment, Amber.

LENS-BC2. Ceiling-Mount Lens Attachment, Blue.

LENS-GC2. Ceiling-Mount Lens Attachment, Green.

LENS-RC2. Ceiling-Mount Lens Attachment, Red.

BEZEL KITS*

BZW, BZR. Wall Bezel Kit (White, Red).

BZGW, BZGR. Compact Wall Bezel Kit (White, Red).

BZWC, BZRC. Horn/Strobe Ceiling Bezel Kit (White, Red).

BZSPW, BZSPR. Speaker Wall Red Bezel Kit (White, Red).

BZSPWC, BZSPRC. Speaker Ceiling Red Bezel Kit. (White, Red).

NOTE: For bezel option add -F (FIRE), -AL (ALERT), -EV (EVAC), -AG (AGENT), -P (Plain), -SP (FUEGO), -PG (FOGO) suffix for desired printing.

NOTE: Each bezel pack ships in a package of 5.

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ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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