L-Series
Audible Visible Notification
PRODUCTS

SYSTEM SENSOR®

- Accessories
- Chimes
- Chime Strobes
- ECS and MNS
- Horns
- Horn Strobes
- Speakers
- Speakers Strobes
- Strobes

ASPIRATION | AV | BEAM | CO | HVAC | SPOT | SPRINKLER | MODULES | RELAYS

AV

Simple to install, yet **powerful** enough to meet any requirement.

Fire, emergency communications, mass notification, general signaling, and voice evacuation systems all provide opportunities for growth. But to grow your business in this market, you need an audible visible (AV) line simple enough to install quickly in large installations, yet powerful enough to meet any application requirement.

System Sensor L-Series does just that.

System Sensor's new AV offering provides plug-in designs, updated aesthetics, functional consistency, and field-adjustable settings across the entire line. The L-Series enables you to meet the widest range of notification requirements and specifications in the industry.

With System Sensor L-Series, you can take on any project with confidence, knowing you can meet requirements while maximizing the efficiencies of using a single product line. Whether for massive emergency communications projects, small notification systems, or anything in between, L-Series products, tools, and accessories simplify the entire user experience – from planning and selection to training, installation and maintenance – saving you time and money while protecting the lives of your customers.

See inside why System Sensor L-Series is a market leader in AV notification.


+RED

We offer a **complete** AV line that meets your every need.

If you specify System Sensor L-Series, you'll benefit from the simplicity that comes with the widest and most consistent line of AV notification appliances in the industry. L-Series includes a full range of indoor, wall, and ceiling products for a wide variety of notification projects. Common features across the line include field-selectable candela settings, plug-in designs, rotary code switches, universal mounting plates, and small footprint horns, strobes and horn strobes.

These attractive devices are designed with the architect in mind. All L-Series devices have the same family look and can be interchanged seamlessly within a building. Unique accessories, like the bezel kits, make product customization easy.

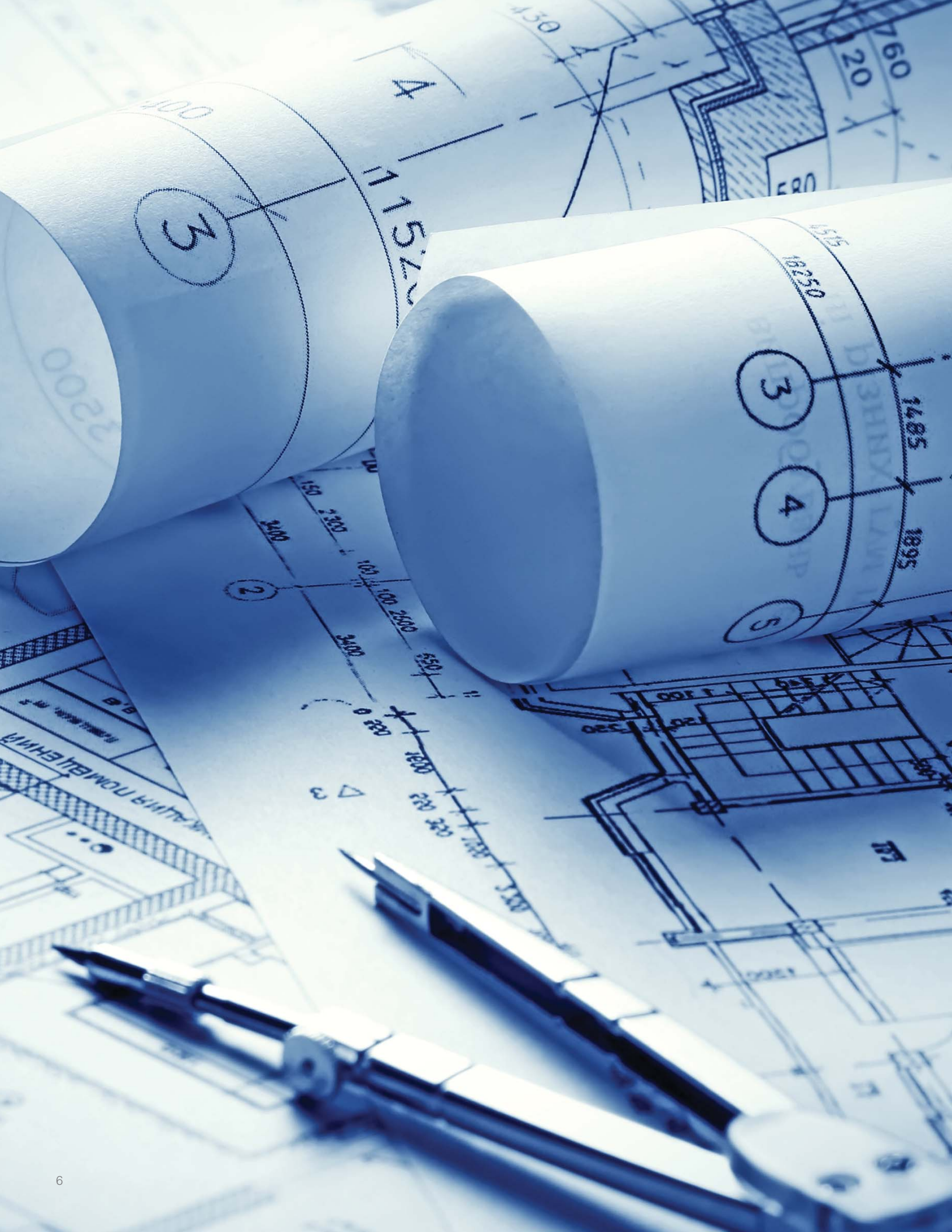
The breadth and consistency of the L-Series line are further enhanced by features that increase versatility. For example, plain models can be customized with field-applied bezels and color lens strobe attachments for a variety of applications.

System Sensor also provides tools that simplify the specification of code-compliant systems. You can learn more about these tools at systemsensor.com/tools.

Versatile Devices Fit Any Application or Market

System Sensor L-Series provides the versatility that specifiers need to meet requirements for a range of notification applications – from fire to mass notification to general signaling – using a single, uniform line of products.

Our field-applied bezels (AGENT, EVAC, ALERT, FIRE, FUEGO, FOGO, Plain) customize any plain AV device for unique applications. Used in conjunction with our color lenses (amber, red, blue, green), they can turn any strobe into an ECS, general signaling, weather warning, or agent release notification appliance with no light derating. That means the L-Series line makes it easy for you to expand your business into markets beyond fire.



Easily meet requirements with cost-effective design.

A high-quality notification system design serves as the foundation for any project, helping to guide installation and ensure relevant codes are met. System Sensor products and tools help make the design process cost-effective and efficient, so you can win bids and ultimately save time and money on the entire project.

First, System Sensor L-Series products and accessories provide the breadth and versatility for you to meet virtually any requirement for indoor, wall, or ceiling applications with a single, cohesive family of products.

In addition, a code-compliant AV system has many upfront calculations or requirements that can be complicated and time-consuming, such as calculating voltage drop on a circuit or obtaining documentation that needs to be included in a job file. System Sensor provides several online tools and software that can greatly simplify these processes.

Free Design Tools and Learning Resources

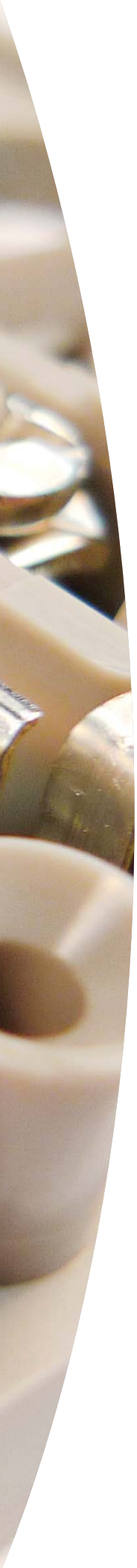
System Sensor L-Series isn't just a line of notification appliances, it also includes a variety of free design tools and learning resources to help you efficiently design notification systems that meet code and save lives.

When designing a notification system, there are several tasks and calculations that can be tedious and time-consuming. System Sensor assists in this process by providing tools online at systemsensor.com/tools. Here, you can access free tools, such as the Voltage Drop Calculator, to simplify system design.

Other useful resources include the CAD download page at systemsensor.com/cad and the Engineering Specifications page at systemsensor.com/engspecs. These pages enable you to quickly download CAD files or engineering specifications for any System Sensor product. Simply click "GO" in the Document Center.

If it's training you're looking for, System Sensor online training, live and archived webinars, and seminars provide the latest information on meeting code and application requirements. These training resources can be accessed at systemsensor.com.

Finally, System Sensor provides several guides, case studies and white papers that include best practices on specific notification system applications.



Reduce the time and cost of installation and maintenance.

If you install notification systems, System Sensor L-Series greatly reduces the time and expense associated with installation, configuration and maintenance. That means you can win more bids, increase your margins, and take on more projects.

For example, System Sensor L-Series provides aesthetic and functional consistency across its entire range of AV devices. Whether your project requires wall, ceiling, clear lens or amber lens appliances, you only need to learn one uniform product line. This approach reduces required training as well as potential confusion in the field.

Common L-Series features provide benefits beyond uniformity; they also provide exceptional time and cost benefits for your projects. First, all devices provide field-selectable settings and use a universal mounting plate for both wall and ceiling applications. The mounting plate is further enhanced with an onboard shorting spring that ensures wiring continuity before devices are installed, so you can verify that the loop is properly wired without mounting the devices and exposing them to potential construction damage. The L-Series also includes small footprint horn, strobe and horn strobe options for applications where aesthetics are most important.

Once the plates are mounted, all devices, including speakers and speaker strobes, utilize a plug-in design with a single captured screw to speed installation and virtually eliminate costly ground faults from crushed or pinched wires. In addition, if a device is damaged and needs to be replaced or its settings reconfigured, technicians simply loosen a single screw and unplug the device for replacement or adjustment.

Simple Installation Across the Entire Line

Whatever type of notification devices your project requires, System Sensor L-Series provides a quick, easy, and uniform installation experience. Take our new bezel kits that allow for field customization of all L-Series devices. This makes for a streamlined offering all the benefit customers have come to expect from System Sensor – benefits that include mounting plates with onboard shorting springs, plug-in designs across the entire line (including speakers), and a preliminary snap-in feature with a single captured screw for quick and efficient device mounting.

Strobes

L-Series Strobes

System Sensor L-Series strobes – which are available in ceiling-mount or wall-mount varieties to meet a wide variety of applications – are ideal for warning hearing-impaired individuals during an emergency event. For convenient installation, the universal mounting plate with its snap-in feature holds the product in place for the screw attachment. Strobes feature 10 field-selectable candela settings and are compatible with 12- or 24-volt systems for a high level of customization. SpectrAlert Advance strobes are listed to UL 1971 for public mode evacuation. See page 16 for our line of plain strobes and page 17 for ALERT printed strobes for ECS/MNS applications.

Ceiling-Mount Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking	Description
Indoor	SCRL	SCWL	15, 30, 75, 95, 115, 150, 177	FIRE	Clear lens

Wall-Mount Strobes

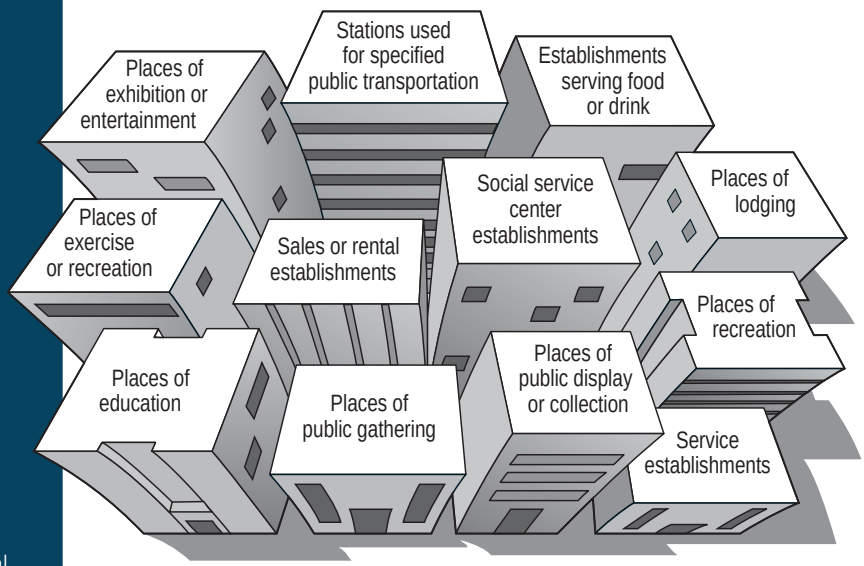
Location	Red Model No.	White Model No.	Candela Settings	Marking	Description
Indoor	SRL	SWL	15, 30, 75, 95, 110, 135, 185	FIRE	Clear lens
	SGRL	SGWL	15, 30, 75, 95, 110, 135, 185	FIRE	Clear lens, compact
	SRL-SP	–	15, 30, 75, 95, 110, 135, 185	FUEGO	Clear lens

Note: -SP denotes "FUEGO" printed housing.

Private vs. Public Mode Notification

"Private mode" applications are those where a signal is known to be in place and where someone is trained to take additional action upon notification from the alarm signal. Examples include control rooms, nurses' stations and guard desks. These emergency signaling applications may not have to meet ADA requirements and may be satisfied through installation of UL 1638 appliances.

"Public mode" operation includes audible or visible signaling to occupants or inhabitants of the area protected by the fire alarm system. The Americans with Disabilities Act, Section 301-7, defines a public accommodation as any facility that is privately operated, affects commerce with its operation, and falls into one of the 12 categories shown in the accompanying illustration. These categories are fairly general and will encompass a wide variety of facilities. Social service facilities, for example, include not only homeless shelters, adoption agencies, senior citizen centers, food banks and day care centers, but also halfway houses, substance abuse treatment facilities and other crisis centers.



Chimes and **Chime Strobes**

L-Series Chimes

L-Series chimes were designed to produce a distinctive chime tone to meet UL 464 private mode applications for alerting trained personnel to investigate possible emergency situations and take appropriate actions. Devices feature rotary switches to select from a multitude of sound patterns and volume settings, and are compatible with 12- or 24-volt systems for additional customization. Using the shorting spring feature to provide instant feedback to ensure that wiring is properly connected – in conjunction with our plug-in design – simplifies the process and cuts install time. Chimes are also compatible with the System Sensor synchronization protocol.

Chimes

Location	Red Model No.	White Model No.	Candela Settings	Description
Indoor	CHRL	CHWL	15, 30, 75, 95, 110, 135, 185	Chime with selectable chime tones and volume settings

L-Series Chime Strobes

L-Series indoor chime strobes were designed to produce a distinctive chime tone to meet UL 464 and UL 1638 in private mode applications, when alerting trained personnel to investigate possible emergency situations and take appropriate actions. Using the shorting spring feature to provide instant feedback to ensure that wiring is properly connected – in conjunction with our plug-in design – simplifies the process and cuts install time. With 7 field-selectable candela settings for wall and ceiling models and 12- or 24-volt operation in one device, chime strobes maximize profits and provide a high level of customization.

Chime Strobes

Location	Red Model No.	White Model No.	Candela Settings	Description
Indoor	CHSRL	CHSWL	15, 30, 75, 95, 110, 135, 185	2-wire, Clear lens, wall
Indoor	CHSCRL	CHSCWL	15, 30, 75, 95, 115, 150, 177	2-wire, Clear lens, ceiling

L-Series Horns

L-Series horns increase application flexibility for indoor or outdoor installations. Intended for full building notification as well as on the property ground, they produce a loud sound to notify occupants to evacuate the buildings. Installers can easily adapt devices to suit a wide range of application requirements by using field-selectable sound patterns and volume settings. Compatible with 12- or 24-volt systems. The universal mounting plate's plug-in design simplifies installation, too. L-Series horns are listed to UL 464 for public mode application.

Wall-Mount Horns

Location	Red Model No.	White Model No.	Description
Indoor	HRL	HWL	Horn
Indoor	HGRL	HGWL	Horn, compact

Horn Strobes

L-Series Horn Strobes

L-Series horn strobes are rich with features guaranteed to cut installation time and maximize profits. Intended for full building notification as well as on the property ground, they produce a loud sound to notify occupants to evacuate the buildings; the strobe is intended to notify those that may have a hearing impairment. Features include a universal mounting plate with a preliminary snap-in feature to hold the product in place for the screw attachment, 7 field-selectable candela settings for wall and ceiling mount devices, and rotary switches to select horn tone and volume settings. Compatible with 12- or 24-volt systems. L-Series horn strobes are listed to UL 1971 and UL 464 for public mode evacuation.

Ceiling-Mount Horn Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking	Description
Indoor	PC2RL	PC2WL	15, 30, 75, 95, 115, 150, 177	FIRE	2-Wire, Clear Lens

Wall-Mount Horn Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking	Description
Indoor	P2RL	P2WL	15, 30, 75, 95, 110, 135, 185	FIRE	2-Wire, Clear Lens
	P2GRL	P2GWL	15, 30, 75, 95, 110, 135, 185	FIRE	2-Wire, Clear Lens, compact
	P2RL-SP	P2WL-SP	15, 30, 75, 95, 110, 135, 185	FUEGO	2-Wire, Clear Lens

Note: -SP denotes “FUEGO” printed housing.

Speakers

L-Series Speakers

Dual-voltage (25/70.7 Vrms) evacuation speakers were designed for fast installation and top performance in noisy environments. The low total harmonic distortion of the SP speaker offers high fidelity and high sound output. Evacuation speakers also feature a plug-in design for reducing ground faults.

Ceiling-Mount Speakers

Location	Red Model No.	White Model No.	Description
Indoor	SPCRL	SPCWL	Dual-voltage evacuation speaker
Indoor	–	SPCW8	Dual-voltage evacuation speaker, 8-inch, 8W

Wall-Mount Speakers

Location	Red Model No.	White Model No.	Description
Indoor	SPRL	SPWL	Dual-voltage evacuation speaker

Speaker Strobes

L-Series Speaker Strobes

During an emergency, building occupants and those on property grounds need to quickly understand what is happening and what actions to take. L-Series speaker strobes transmit the clear, intelligible messages and visible notification necessary to meet code, save lives, and protect property. In addition, selectable-output speaker strobes offer many features to reduce ground faults and simplify installation. Rotary switches allow installers to select voltage and power, and the 7 field-selectable candela settings for wall and ceiling mounting accommodate any application. Low total harmonic distortion of the SP series provides high fidelity and high sound output, making them ideal for use in high-ambient noise environments. The plug-in design and universal mounting plate provides additional flexibility.

Ceiling-Mount Speaker Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking	Description
Indoor	SPSCRL	SPSCWL	15, 30, 75, 95, 115, 150, 177	FIRE	Clear lens
Indoor	–	SPSCWL-SP	15, 30, 75, 95, 115, 150, 177	FUEGO	Clear lens

Wall-Mount Speaker Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking	Description
Indoor	SPSRL	SPSWL	15, 30, 75, 95, 110, 135, 185	FIRE	Clear lens
Indoor	SPSRL-SP	–	15, 30, 75, 95, 110, 135, 185	FUEGO	Clear lens

Note: -SP denotes “FUEGO” printed housing.

Voice Evacuation
Design Information

A word about speaker output ratings from listing agencies:

On many speaker data sheets, there are two speaker output ratings provided. One is referred to as reverberant and the other is anechoic. In the US, Underwriters Laboratories uses a reverberant chamber to test speakers. A reverberant chamber is a specially constructed room with walls that have almost no sound absorption. Since the walls are so highly reflective of sound waves, the sound energy distribution in the room is very uniform. When designing systems for UL compliance, the sound output measured using the reverberant method should be used.

Underwriters Laboratories of Canada takes just the opposite approach and uses an anechoic chamber. An anechoic chamber has almost no sound reflection. This chamber produces a different result in the speaker specification. When designing systems for ULC compliance, the sound output measured with the anechoic method should be used.

Plain Horn Strobes, Speaker Strobes, and Strobes

L-Series Plain Notification Appliances

L-Series plain horn strobes, speaker strobes, and strobes were designed to reduce installation time and meet a wide variety of Mass Notification and Emergency Communication applications. All of the plain notification appliances carry the same product specifications as the “FIRE” marked products. Compatible with our colored lenses and bezel kits to provide distinctive visual signaling during and emergency.

Wall-Mount Horn Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking*	Description
Indoor	P2RL-P	P2WL-P	15, 30, 75, 95, 110, 135, 185	None	2-Wire, Clear Lens

Plain Ceiling-Mount Speaker Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking*	Description
Indoor	—	SPSCWL-P	15, 30, 75, 95, 115, 150, 177	None	Clear lens

Plain Wall-Mount Speaker Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking*	Description
Indoor	SPSRL-P	SPSWL-P	15, 30, 75, 95, 110, 135, 185	None	Clear lens

Plain Wall-Mount Strobes

Location	Red Model No.	White Model No.	Candela Settings	Marking*	Description
Indoor	SRL-P	SWL-P	15, 30, 75, 95, 110, 135, 185	None	Clear lens

Notes:

- -P denotes plain devices with no markings.
- *Compatible with BZR, BZRC, BZSPR, BZSPRC bezels for red devices (white letters) and BZW, BZWC, BZSPW, BZSPWC for white devices (red letters).

Emergency Communication Devices

Alert Devices for Emergency Communication Systems

ALERT Ceiling-Mount Strobes and Speaker Strobes

Location	White Model No.	Candela Settings	Marking	Description
Indoor	SCWL-CLR-AELRT	15, 30, 75, 95, 115, 150, 177	ALERT	Clear lens
Indoor	SPSCWL-CLR-ALERT	15, 30, 75, 95, 115, 150, 177	ALERT	Clear lens

ALERT Wall-Mount Strobes and Speaker Strobes

Location	White Model No.	Candela	Marking	Description
Indoor	SWL-CLR-ALERT	15, 30, 75, 95, 110, 135, 185	ALERT	Clear Lens
Indoor	SWL-ALERT	15, 30, 75, 95, 110, 135, 185	ALERT	Amber Lens
Indoor	SPSWL-ALERT	15, 30, 75, 95, 110, 135, 185	ALERT	Amber Lens
Indoor	SPSWL-CLR-ALERT	15, 30, 75, 95, 110, 135, 185	ALERT	Clear Lens

Notes:
- Ceiling Candela settings: 15, 30,75, 95, 115, 150, 177
- Wall Candela settings: 15, 30, 75, 95, 110, 135, 185

Audible Visible **Accessories**

L-Series devices can be adapted to nearly any application with the appropriate accessory. Our mounting options allow our strobes, speakers, horns, chimes, and strobe combinations to be placed in new or existing construction with professional results.

Ceiling-Mount Back Boxes

Location	Red Model No.	White Model No.	Description
Indoor	SBBCRL	SBBCWL	Surface-mount back box for ceiling-mount horns, strobes, horn strobes, speakers, and speaker strobes

Wall-Mount Back Boxes

Location	Red Model No.	White Model No.	Description
Indoor	SBBRL	SBBWL	Surface-mount back box for wall-mount horns, strobes, horn strobes, chimes and chime strobes
Indoor	SBBGRL	SBBGWL	Surface-mount back box for compact wall-mount horns, strobes, and horn strobes
Indoor	SBBSPRL	SBBSPWL	Surface-mount back box for wall-mount speakers and speaker strobes

Audible Visible **Accessories**

Colored Lenses - For use with plain (non-FIRE marked) strobe devices.

Ceiling Model No.	Wall Model No.	Color	Description
LENS-AC2	LENS-A2	Amber	Lens attachment for all L-Series plain (non-FIRE marked) indoor ceiling- or wall-mounted strobes
LENS-BC2	LENS-B2	Blue	
LENS-GC2	LENS-G2	Green	
LENS-RC2	LENS-R2	Red	

Bezel Kits - For product marking customization.

Mounting	Red Model No.	White Model No.	Description
Wall	BZR	BZW	Bezel kit compatible with Wall-Mount Horns, Strobes, Horn Strobes, Chimes and Chime Strobes
Wall	BZGR	BZGW	Bezel kit compatible with compact Wall-Mount Horns, Strobes, and Horn Strobes
Ceiling	BZRC	BZWC	Bezel kit compatible with Ceiling-Mount Horns, Strobes, Horn Strobes, an Chime Strobes
Wall	BZSPR	BZSPW	Bezel kit compatible with Wall-Mount Speakers and Speaker Strobes
Ceiling	BZSPRC	BZSPWC	Bezel kit compatible with Ceiling-Mount Speakers and Speaker Strobes

Notes:

- For desired bezel marking add -AL (ALERT), -AG (AGENT), -EV (EVAC), -F (Fire), -SP (FUEGO), -PG (FOGO), -P (Plain) to the end of any part number.

Mounting Plates

Model No.	Mounting	Description
MP120KL	Wall or Ceiling	Indoor/Outdoor 120 VAC adapter mounting plate for use with L-Series horns, strobes, 2-wire horn strobes, chimes and chime strobes

Sync-Circuit Module

Red Model No.	White Model No.	Description
MDL3R	MDL3W	12 and 24 V sync-ciruit module

Trim Rings

Mounting	Red Model No.	White Model No.	Description
Ceiling	TRC-2	TRC-2W	Universal trim ring for L-Series ceiling-mount devices
Wall	TR-2	TR-2W	Universal trim ring for L-Series wall-mount devices

Specifications and **Ratings**

UL Max. Strobe Current Draw (mA RMS)

		8–17.5 Volts	16–33 Volts	
	Candela	DC	DC	FWR
Candela Range	15	88	43	60
	30	143	63	83
	75	NA	107	136
	95	NA	121	155
	110	NA	148	179
	135	NA	172	209
	185	NA	222	257

UL Max. Horn Current Draw (mA RMS)

		8–17.5 Volts	16–33 Volts	
Sound Pattern	dB	DC	DC	FWR
Temporal	High	39	44	54
Temporal	Low	28	32	54
Non-Temporal	High	43	47	54
Non-Temporal	Low	29	32	54
3.1 KHz Temporal	High	39	41	54
3.1 KHz Temporal	Low	29	32	54
3.1 KHz Non-Temporal	High	42	43	54
3.1 KHz Non-Temporal	Low	28	29	54
Coded	High	43	47	54
3.1 KHz Coded	High	42	43	54

Horn and Horn Strobe Output (dBA)

			8–17.5 Volts**	16–33 Volts**	
Switch Position	Sound Pattern	dB	DC	DC	FWR
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

*Horn & 4-wire Horn Strobe only. **Minimum dB rating for Operational Voltage Range per UL 464.

Specifications and **Ratings**

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

	8–17.5 Volts		16–33 Volts						
DC Input	15	30	15	30	75	95	110	135	185
EM Temp Hi	98	158	54	74	121	142	162	196	245
EM Temp Low	93	154	44	65	111	133	157	184	235
EM Cont Hi	106	166	73	94	139	160	182	211	262
EM Cont Low	93	156	51	71	119	139	162	190	239
3.1K Temp Hi	93	156	53	73	119	140	164	190	242
3.1K Temp Low	91	154	45	66	112	133	160	185	235
3.1K Cont Hi	99	162	69	90	135	157	175	208	261
3.1K Cont Low	93	156	52	72	119	138	162	192	242

	16FWR						
FWR Input	15	30	75	95	110	135	185
EM Temp Hi	83	107	156	177	198	234	287
EM Temp Low	68	91	145	165	185	223	271
EM Cont Hi	11	135	185	207	230	264	316
EM Cont Low	79	104	157	175	197	235	283
3.1K Temp Hi	81	105	155	177	196	234	284
3.1K Temp Low	68	90	145	166	186	222	276
3.1K Cont Hi	104	131	177	204	230	264	326
3.1K Cont Low	77	102	156	177	199	234	291

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe

	8 VDC		16 VDC						
Candela	15	30	15	30	75	95	115	150	177
EM Temp Hi	103	167	71	90	143	165	187	217	254
EM Temp Low	96	165	54	71	137	161	185	211	249
EM Cont Hi	106	173	71	90	141	165	187	230	273
EM Cont Low	95	166	54	71	124	161	170	216	258
3.1K Temp Hi	111	164	69	94	147	163	184	229	257
3.1K Temp Low	103	163	54	88	143	155	185	212	252
3.1K Cont Hi	111	172	69	94	144	164	202	229	271
3.1K Cont Low	103	169	54	88	131	155	187	217	259

	16FWR						
Candela	15	30	75	95	115	150	177
EM Temp Hi	107	135	179	198	223	254	286
EM Temp Low	78	101	151	172	199	229	262
EM Cont Hi	107	135	179	198	223	254	286
EM Cont Low	78	101	151	172	199	229	262
3.1K Temp Hi	108	135	179	200	225	255	289
3.1K Temp Low	79	101	150	171	196	229	260
3.1K Cont Hi	108	135	179	200	225	255	289
3.1K Cont Low	79	101	150	171	196	229	260

UL Max. Chime Current Draw (mA RMS)

Sound Pattern	dB	8–17.5 Volts	16–33 Volts	
		DC	DC	FWR
1 Second Chime	High	5	8	9
1 Second Chime	Low	5	8	9
¼ Second Chime	High	6	10	10
¼ Second Chime	Low	5	9	9
Temporal Chime	High	7	10	10
Temporal Chime	Low	6	9	9
5 Second Whoop	High	12	15	16
5 Second Whoop	Low	7	10	11
Coded *	High	12	15	16

*This data represents coding at 3 chimes per second. Actual current draw will vary depending upon coding selected.

Sound Output Speaker Strobe

	¼ W	½ W	1 W	2 W
UL Reverberant (dBA @10 ft)	77	80	83	86
UL Anechoic (dBA @10 ft)	77	80	83	86

Sound Output Speaker

	¼ W	½ W	1 W	2 W
UL Reverberant (dBA @10 ft)	79	82	85	88
UL Anechoic (dBA @10 ft)	79	82	85	88

Specifications

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

Humidity Range
10% to 93% non-condensing (indoor products)

Strobe Flash Rate
1 flash per second

Nominal Voltage
Regulated 12 DC/FWR or regulated 24 DC/FWR[1]

Operating Voltage Range[2]
8 V to 17.5 V (12 V nominal) or 16 V to 33 V (24 V nominal)

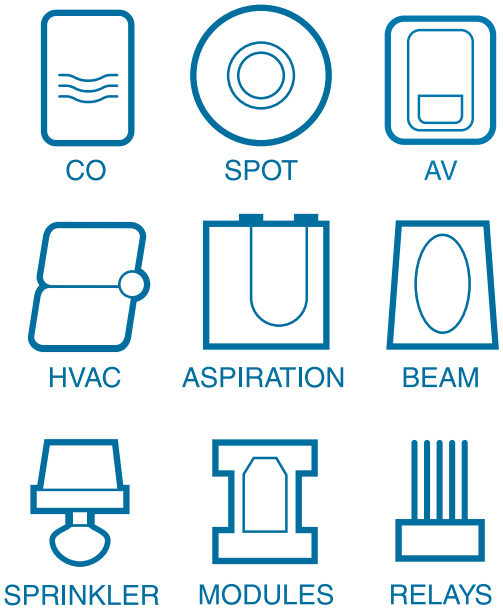
Input Terminal Wire Gauge
12 AWG to 18 AWG

Notes:

1. Full Wave Rectified (FWR) voltage is an unfiltered, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 30 cd.

Candela De-rating by Lens Color

Wall Candela Setting	15	30	75	95	110	135	185
Private Mode	15	30	75	95	110	135	185
Emergency Warning	12	24	60	75	85	105	145



Founded in 1984, System Sensor is a global manufacturer of fire and life safety devices, specializing in smoke detection, carbon monoxide detection, and notification technology. System Sensor develops products for real-world applications worldwide. With sales, service, and manufacturing facilities throughout the Americas, Europe, and Asia, System Sensor places a premium on research and development to provide the most reliable, innovative, and comprehensive line of products in the industry.

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