

# Notification Appliances

`SL' Series – Horns | Strobes | Horn-Strobes

Applications : Indoor, Ceiling-Only

## Architect & Engineer Specifications

- ❑ Sophisticated series of notification appliances that meets fire-industry codes and regulations for commercial-building applications
- ❑ Compatible with the Siemens 50-point, 252-point and 504-point addressable fire alarm control panels (FACPs), and with:
  - Siemens Modular FACPs
  - Siemens PAD-series of NAC extenders
  - FireFinder® XLS / XLSV FACPs
  - Siemens dual-sync control (DSC) modules
- ❑ Innovative LED strobe technology provides an energy-efficient means for a significantly reduced current draw
  - Capability to have existing Xenon and new LED strobes in the same field-of-view
  - Fewer power supplies required, smaller wire gage, reduced wire runs
- ❑ Straightforward installation coupled with compact, modern design
  - No visible mounting screws
  - Manual (index finger) slide-setting adjuster
  - Four (4) field-selectable settings in one (1) device: 15cd | 30cd | 75cd | 95cd
- ❑ Faceplates ship in four (4) distinctive types:
  - "FIRE" | "ALERT" | "AGENT" | (blank)
- ❑ Two (2) audible settings in each notification appliance
  - Temporal or steady horn output
  - High or Low setting
- ❑ UL (2034 | 1971 | 464) and ULC Listed (ULC-S525 | - S526)
- ❑ FM Approved
  - ADA | NFPA | FCC | ANSI | OSHA compliant

## Product Overview

Formed as the `SL'-series, Siemens is now offering horns, strobes, and horn-strobes with LED based strobes to its notification-appliances portfolio.

With the `SL'-series, Siemens now offers an additional range of products with low and high candela settings that makes these sophisticated notification appliances ideal for new installs and retrofit applications.

Innovative light-emitting diode (LED) strobe technology provides an energy-efficient means for a significantly reduced current draw.

The strobe portion of these appliances meets the 20 millisecond light-pulse-duration requirements of the 2016 edition of NFPA 72. This feature allows existing Xenon and the new LED devices to be used in the same field-of-view.

In a single device, the `SL'-series can provide alarm-signaling tones for dual applications. All strobe models in the series feature multi-candela settings (15 | 30 | 75 | 95cd) on a single appliance.

Additionally, there are two (2) modes of operation for the audible portion of these notification appliances:

- T3 (coded)
- Continuous

The `SL'-series of horns, strobes and horn-strobes devices are produced in a sleek, modern design. Its structure and design provide high-quality energy efficiency in an aesthetically pleasing, low-profile design that is consistent to the look of the interior composition of the building application.

This `SL'-series is exclusive to indoor ceiling-mount applications. The Model `SLHC'-series horn appliances work in either 12V or 24VDC, whereas the Series `SLSC' and `SLHSC' strobe and horn-strobe devices are specifically for 24V operation.



**Model SLHSCR-F**  
Horn-strobe

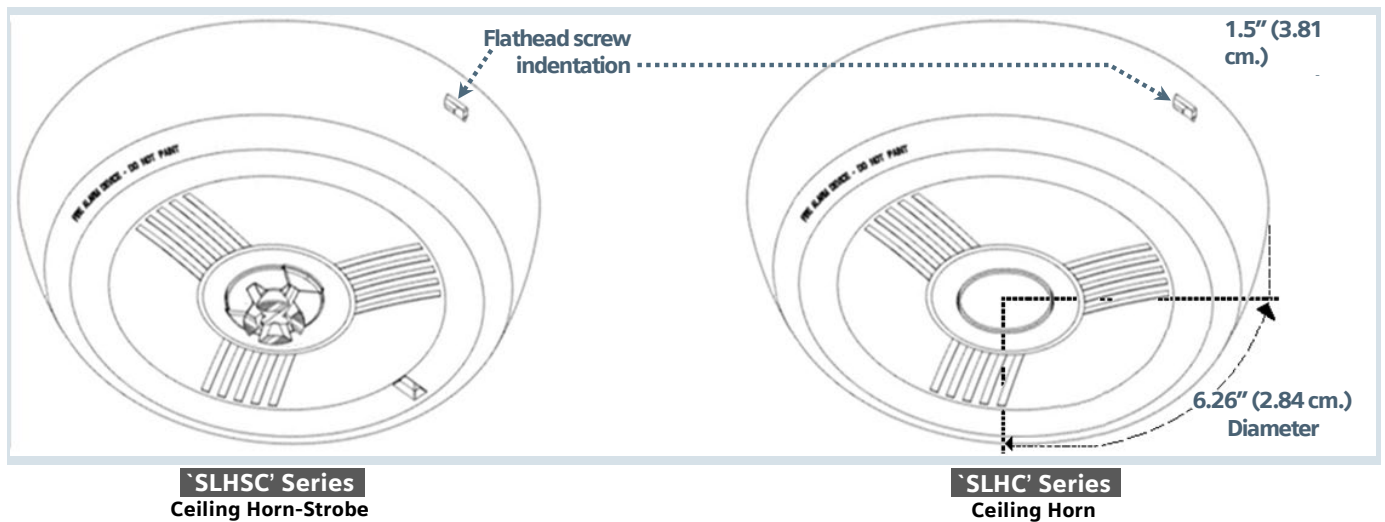


**Model SLSCW-AL**  
Strobe



**Model SLHCR-N**  
Horn





**Specifications**

In terms of composition and functionality, Models `SLHC'-series, `SLSC'-series, and `SLHSC '-series provide added value to the installer for the types of applications for operation:

- Compact | sleek | low-profile design
- Comprehensive feature list
- Convenient mounting options
- Easy-to-adjust selection-slider switch for candela settings
  - No tools required for setting changes
  - Multi-level settings: 15cd | 30cd | 75cd | 95cd
- High and Low audible outputs
- Reduced current draw, via cutting-edge LED technology

The LED portions of the Siemens `SL'-series of strobes and horn-strobes meet the 20 millisecond light-pulse-duration requirements of the 2016 edition of NFPA 72. By meeting this latest requirement, existing Xenon as well as the new LED-technology devices can now be in the same field-of-view.

The horn, strobe and horn-strobes in this Siemens `SL'-series of notification appliances have received UL / ULC Listed status by attaining compatible testing standards with all of the Siemens fire-alarm control panels (FACPs) and accessories that have been determined to be aligned with existing Siemens strobe-based appliances.

This would include the following existing model-types: `CH' | `HS' | `MTH' | `S-HQ' | `AS' | `SE' | `SEF' | `SET' | `ST' | `STH' | `ZR' and `ZH' Series notification appliances. The regulatory listing also includes the capability for installing the Siemens `SL'-series sounder-strobes in the same notification zone and field-of-view with any existing Siemens Notification Appliance Xenon-based strobes.

All these horns, strobes and horn-strobes models are UL Listed (for indoor use under Standard 1971 and 464), as well as ULC-S525 | ULC-S526 Listed. The Siemens `SL'-series sounder-strobes also have ADA | RoHS and ICES approval.

## Electrical Ratings

### Ceiling-Mount | Horn-Strobes Output Current Draw

UL Current Ratings (HIGH dB   in Amps) 16.0 - 33.0 VDC					
MODEL SLHSC' SERIES: <sup>^</sup>	Setting	15cd	30cd	75cd	95cd
	Code 3	0.044	0.065	0.182	0.268
	Continuous	0.049	0.067	0.187	0.274

UL Current Ratings (LOW dB   in Amps) 16.0 - 33.0 VDC					
MODEL SLHSC' SERIES:	Setting	15cd	30cd	75cd	95cd
	Code 3	0.042	0.064	0.181	0.256
	Continuous	0.045	0.066	0.183	0.271

### Ceiling-Mount | Horn-Only

Current Ratings (Code 3   in Amps) RMS Current @ 24 Volts DC			
MODEL SLHC' SERIES: <sup>^</sup>	Regulated Voltage Range, VDC	High	Low
	8.0 - 17.5 VDC	0.024	0.018
	16.0 - 33.0 VDC	0.030	0.022

### Ceiling-Mount | Strobe-Only Output Current Draw

Current Ratings (in Amps) RMS Current @ 24 Volts DC					
MODEL SLSC' SERIES: <sup>^</sup>	Regulated Voltage Range	15cd	30cd	75cd	95cd
	16.0 - 33.0 Volts DC	0.040	0.058	0.171	0.256

#### GENERAL NOTES:

- 1) Strobes are designed to flash at 1-flash-per-second minimum over their "Regulated Voltage Range."
- 2) NFPA-72 specifies a flash rate of 1-to-2 flashes-per-second, and guidelines for the Americans with Disabilities Act (ADA) specify a flash rate of 1-to-3 flashes-per-second.
- 3) All candela ratings represent minimum effective Strobe intensity based on UL 1971.

### Ceiling Mount | Horn | Output Ratings | UL

UL Sound Output Ratings (dBA) Reverberant per UL464 @ 10 feet						
MODEL SLHW'- and - SLHSW' SERIES: <sup>^</sup>	Volume	SLHC @ 12VDC			SLHC -and- SLHSC @ 24VDC	
		8.0V	12.0V	17.5V	16.0V	24.0V
	Code 3   High dBA	75	80	83	76	79
Code 3   Low dBA	73	77	80	75	77	77
Continuous   High dBA	80	84	87	80	83	86
Continuous   Low dBA	78	79	84	78	81	81

### Ceiling Mount | Horn | Output Ratings | ULC

ULC Sound Output Ratings (dBA) Anechoic per ULCS525-16 @ 3.05 meters						
MODEL SLHW'- and - SLHSW' SERIES: <sup>^</sup>	Volume	SLHW @ 12VDC			SLHW -and- SLHSW @ 24VDC	
		8.0V	12.0V	17.5V	16.0V	24.0V
	Code 3   High dBA	85	89	92	91	95
Code 3   Low dBA	79	84	87	86	90	91
Continuous   High dBA	85	89	92	91	94	97
Continuous   Low dBA	79	84	87	86	90	92

<sup>^</sup>RMS current ratings are per UL maximum RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16 - 33V for 24V units)

<sup>^</sup>For audible appliances, the max current is usually at the maximum listed voltage (16 - 33V for 24V units)

<sup>^</sup>For unfiltered FWR ratings, see installation instruction

## Technical Data

### General Properties

MODEL 'SL'-series	
OPERATING TEMPERATURE:	- 32°F (0°C) to 122°F (50°C) - for indoor applications only
RELATIVE HUMIDITY:	93%, maximum
OPERATING VOLTAGE RANGES:	- 12 VDC / VFWR → 8 - 17.5 VDC / VFWR; - 24 VDC / VFWR → 16 - 33 VDC/VFWR (12 VDC for Model SLHC only)
STROBE OUTPUT RATING:	- UL 1971, ULC-S526 - Field-selectable 15cd   30cd   75cd   95cd candela outputs
STROBE FLASH RATE:	Strobes are designed to flash at one-flash-per-second
STROBE SYNCHRONIZATION:	- all Siemens addressable panels - Siemens PAD-series NAC extenders - Siemens dual-sync (DSC) modules, which provide the unique Siemens proprietary synchronization protocol
TEMPORAL PATTERN:	- Continuous - Code 3 (1/2 second on, 1/2 second off; then 1/2 second on, 1/2 second off; followed by 1/2 second on, 1-1/2 second off and repeat) <b>NOTES:</b> The Code 3 pattern is specified by ANSI and NFPA 72 for Standard Emergency Evacuation Signaling.

### Physical Properties

MODEL 'SL'-series	
MATERIAL:	- White-or-red textured, ultraviolet (UV) stabilized, colored impregnated engineered plastic - Exceeds 94V-0 UL flammability rating
WEIGHT:	0.55 Lbs. (0.25 Kg.)
LENS TYPE:	LED strobe situated in a rugged Lexan lens
DIMENSIONS:	3.13" (7.95 cm.) {H} 3.13" (7.95 cm.) {W} 1.5" (3.81 cm.) {D}

### Mounting and Wiring Properties

MODEL 'SL'-series	
INDOOR MOUNTING:	- Ceiling-mount applications - Model SLSSBBCR or SLSSBBCW backboxes or to 4" (10.2 cm.) square - 1.5" (cm.) -or- 2.125" (cm.) octagonal - 1.5" (cm.) -or- 2.125" (cm.) deep
WIRING TYPE:	#12 - #18, American Wire Gauge (AWG)

## Details for Ordering

MODEL	PART NUMBER	APPLIANCE TYPE	UL	ULC	MOUNTING TYPE	STROBE TYPE	FACEPLATE COLOR	FACEPLATE LETTERING
SLHCR-N	S54329-F12-A1	Horn	✓	✓	Ceiling	- None -	RED	- None -
SLHCW-N	S54329-F12-A2		✓	✓		- None -	WHITE	- None -
SLHSCW-F	S54329-F13-A1	Horn-Strobe	✓	—	Ceiling	Clear	WHITE	FIRE
SLHSCR-F	S54329-F13-A2		✓	—		Clear	RED	FIRE
SLHSCR-FB	S54329-F14-A1	Horn-Strobe	—	✓	Ceiling	Clear	RED	- Pictogram -
SLHSCW-FB	S54329-F14-A2		—	✓		Clear	WHITE	- Pictogram -
SLSCW-F	S54329-F15-A1	Strobe	✓	—	Ceiling	Clear	WHITE	FIRE
SLSCR-F	S54329-F15-A2		✓	—		Clear	RED	FIRE
SLSCW-FB	S54329-F16-A1	Strobe	—	✓	Ceiling	Clear	WHITE	- Pictogram -
SLSCR-FB	S54329-F16-A2		—	✓		Clear	RED	- Pictogram -
SLSCW-AL	S54329-F17-A1	Strobe	✓	✓	Ceiling	Clear	WHITE	ALERT
SLSCR-AL	S54329-F17-A2		✓	✓		Clear	RED	ALERT
SLSCW-ALA	S54329-F18-A1	Strobe	✓	✓	Ceiling	Amber	WHITE	ALERT
SLSCR-ALA	S54329-F18-A2		✓	✓		Amber	RED	ALERT
SLSCW-NA	S54329-F19-A1	Strobe	✓	✓	Ceiling	Amber	WHITE	- None -
SLSCR-NA	S54329-F19-A2		✓	✓		Amber	RED	- None -
SLSCW-N	S54329-F20-A1	Strobe	✓	—	Ceiling	Clear	WHITE	- None -
SLSCR-N	S54329-F20-A2		✓	—		Clear	RED	- None -
SLHSCR-A	S54329-F32-A2	Horn-Strobe	✓	✓	Ceiling	Clear	RED	AGENT
SLHSCW-A	S54329-F35-A2		✓	✓		Clear	WHITE	AGENT
SLHSCR-AL	S54329-F33-A1	Horn-Strobe	✓	✓	Ceiling	Clear	RED	ALERT
SLHSCW-AL	S54329-F36-A1		✓	✓		Clear	WHITE	ALERT
SLHSCR-N	S54329-F33-A2	Horn-Strobe	✓	—	Ceiling	Clear	RED	- None -
SLHSCW-N	S54329-F36-A2		✓	—		Clear	WHITE	- None -
SLSCW-A	S54329-F65-A1	Strobe	✓	✓	Ceiling	Clear	WHITE	AGENT
SLSCR-A	S54329-F37-A2		✓	✓		Clear	RED	AGENT
SLSSBBCR	S54329-F55-A1	Backbox	✓	✓	Ceiling	- None -	RED	- None -
SLSSBBCW	S54329-F55-A2		✓	✓		- None -	WHITE	- None -

**NOTICE** - The information contained in this data-sheet document is intended only as a summary and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product. All are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.



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