Notification Appliances

'SL2' Series – Horns **|** Strobes **|** Horn-Strobes
Applications : Indoor, Wall-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 adjustor
- Six (6) field-selectable settings in one (1) device: 15cd **|** 30cd **|** 75cd **|** 110cd **|** 135cd **|** 185cd

☐ Faceplates ship in four (4) distinctive types:
- 'FIRE' **|** 'ALERT' **|** 'AGENT' **|** 'NO LETTERING'

☐ Two (2) audible settings in each notification appliance
- Temporal or steady horn output
- High or Low setting

☐ UL1638 **|** UL1971 **|** UL464 Listed

☐ ULC-S525-16 **|** ULC- S526-16 Listed

☐ FM & CSFM Approved

Product Overview

Formed as the `SL2'-series, Siemens is now offering horns, strobes, and horn-strobes with LED based strobes to its notification-appliances portfolio. With the `SL2'-series, Siemens offers a full 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 `SL2'-series can provide alarm-signaling tones for dual applications. All strobe models in the series feature multi-Candela settings (15cd **|** 30cd **|** 75cd **|** 110cd **|** 135cd **|** 185cd) on a single appliance.

Additionally, there are three (3) modes of operation for the audible portion of these notification appliances:

- Continuous(Code 3 field selectable)
- T3 (Code 3 Sync)
- T3/T4 (Sync Selectable w/DSC)

The `SL2'-series of horns, strobes and horn-strobes devices are produced in a sleek, modern design. Its single-gang form factor provides 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.

The Model `SL2HW'-series horn appliances work in either 12V or 24VDC, whereas the Series `SL2SW' and `SL2HSW' strobe and horn-strobe devices are specifically designed for 24V operation. The `SL2'-series is apt for indoor, wall-mount applications.
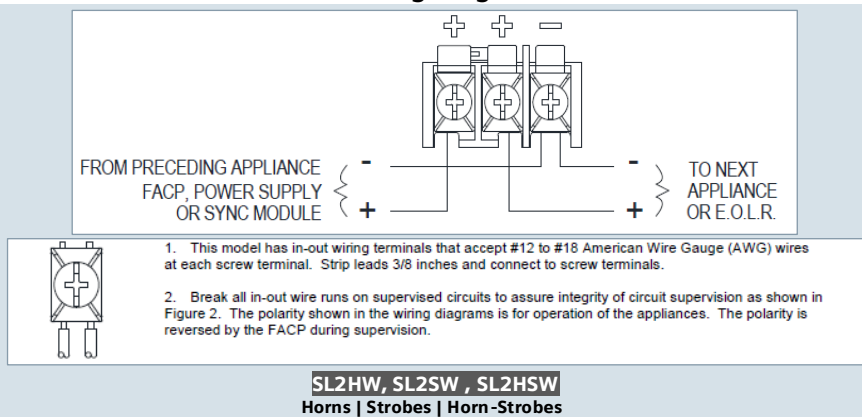

Model SL2HWR-N
Horn

Model SL2SWR-N
Strobe

Model SL2HSWW-F
Horn-Strobe

Wiring Diagrams

FROM PRECEDING APPLIANCE
FACP, POWER SUPPLY
OR SYNC MODULE

TO NEXT
APPLIANCE
OR E.O.L.R.

1. This model has in-out wiring terminals that accept #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.

2. Break all in-out wire runs on supervised circuits to assure integrity of circuit supervision as shown in Figure 2. The polarity shown in the wiring diagrams is for operation of the appliances. The polarity is reversed by the FACP during supervision.

SL2HW, SL2SW , SL2HSW
Horns | Strobes | Horn-Strobes

Specifications

In terms of composition and functionality, Models `SL2HW'-series, `SL2SW'-series, and `SL2HSW'-series of horns, strobes and horn-strobe appliances 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 **|** 110cd **|** 135cd **|** 185cd
- High and Low audible outputs
- Reduced current draw, via cutting-edge LED technology

The LED portions of the Siemens `SL2'-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.
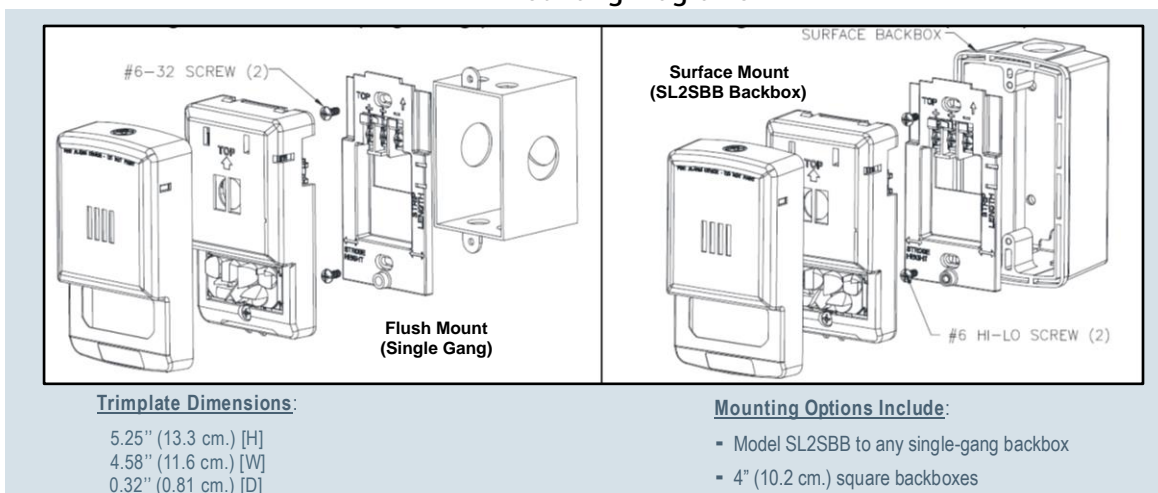
The Horns, Strobes and Horn-Strobes in this Siemens `SL2'-series of notification appliances have received UL / ULC Listed status by attaining compatible testing standards with all Siemens fire-alarm control panels (FACPs) and accessories that have been determined to be aligned with existing Siemens strobe-based appliances.

This would include the following existing model-types: ST | SE | SEH | SET | S-HQ | STH | AS | CH | HS | MTH | SL and Z-Series notification appliances. The regulatory listing also includes the capability for installing the Siemens `SL2'-series LED-based strobes in the same notification zone and field-of-view with any underline existing Siemens Notification Appliance underline Xenon-based strobes.

All types of the 'SL2'-Series horns, strobes and horn-strobe appliances are UL / ULC Listed for indoor use.

Horn: UL464, ULC-S525-16 **|** Strobe: UL1638, UL1971, CAN/ULC-S526-16

Mounting Diagrams

Surface Mount
(SL2SBB Backbox)

SURFACE BACKBOX

#6-32 SCREW (2)

Flush Mount
(Single Gang)

#6 HI-LO SCREW (2)

Trimplate Dimensions:

5.25'' (13.3 cm.) [H]
4.58'' (11.6 cm.) [W]
0.32'' (0.81 cm.) [D]

Mounting Options Include:

- Model SL2SBB to any single-gang backbox
- 4" (10.2 cm.) square backboxes

Horn-Strobes | Output Current Draw

Model SL2HS' Series:^	Current Ratings (Amps @ 24V) HIGH dB						
	Setting	15cd	30cd	75cd	110cd	135cd	185cd
	CONT						
	T3	0.037	0.046	0.077	0.109	0.146	0.208
	T3/T4						

Model SL2HS' Series:^	Current Ratings (Amps @ 24V) LOW dB						
	Setting	15cd	30cd	75cd	110cd	135cd	185cd
	CONT						
	T3	0.030	0.039	0.070	0.102	0.139	0.201
	T3/T4						

Horn-Only | Output Current Draw

Model 'SL2H' Series:^	Current Ratings (Amps) RMS Current @ 24VDC		
	Regulated Voltage Range	High	Low
	12VDC (8-17.5V)	0.025	0.020
	24VDC (16-33V)	0.028	0.021

Strobe-Only | Output Current Draw

Model 'SL2S' Series:^	Current Ratings (Amps)					
	Regulated Voltage Range					
	16.0 – 33.0 VDC			16.0 – 33.0 VRMS		
	15cd	30cd	75cd	110cd	135cd	185cd
	0.022	0.030	0.060	0.086	0.125	0.185

Horn | Output Ratings (UL)

Model 'SL2HW'– and – 'SL2HSW' Series:^	UL Sound Output Ratings (dBA) Reverberant per UL464 @ 10 feet		
	Setting	SL2HW @ 12VDC	SL2HW & SL2HSW @ 24VDC
	CONT | T3| | T3/T4	High dBA 80	High dBA 80
	CONT | T3| T3/T4	Low dBA 78	Low dBA 78

Horn | Output Ratings (ULC)

Model SL2HW'– and – 'SL2HSW' Series:^	ULC Sound Output Ratings (dBA) Anechoic per ULCS525-16 @ 3.05 meters		
	Setting	SL2HW @ 12VDC	SL2HW & SL2HSW @ 24VDC
	CONT | T3| | T3/T4	High dBA 85	High dBA 91
	CONT | T3| | T3/T4	Low dBA 79	Low dBA 86

^ 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
^ For audible appliances, the max current is usually at the maximum listed voltage (16 - 33V for 24V units)
^ For unfiltered FWR ratings, see installation instructions

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.

3. All Candela ratings represent minimum effective Strobe intensity based on UL 1971.

General Properties

MODEL `SL2'-series	
OPERATING TEMPERATURE:	- 32°F (0°C) to 122°F (50°C) - for indoor use only
RELATIVE HUMIDITY:	93%, maximum
OPERATING VOLTAGE RANGES:	- 12 VDC / VFWR → 8.0 - 17.5 V - 24 VDC / VFWR → 16.0 – 33.0 V (12 VDC for Model SL2HW only)
STROBE OUTPUT RATING:	- UL 1638, 1971 | ULC-S526-16 - Field-selectable 15cd | 30cd | 75cd | 110cd | 135cd | 185cd Candela outputs
STROBE FLASH RATE:	Strobes are designed to flash at one-flash-per-second
STROBE SYNCRONIZATION:	- 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 ($\frac{1}{2}$ second on, $\frac{1}{2}$ second off; then $\frac{1}{2}$ second on, $\frac{1}{2}$ second off; followed by $\frac{1}{2}$ second on, 1-$\frac{1}{2}$ second off and repeat) **NOTES:** The Code 3 pattern is specified by ANSI and NFPA 72 for Standard Emergency Evacuation Signaling.

Physical Properties

MODEL `SL2'-series	
MATERIAL:	- White-or-red textured, ultraviolet (UV) stabilized, colored impregnated engineered plastic - Exceeds 94V-0 UL flammability rating
WEIGHT:	0.35 Lbs. (0.16 Kg.)
LENS TYPE:	LED strobe situated in a rugged Lexan lens
DIMENSIONS:	Actual Appliance: 4.79'' (12.1 cm.) [H] 2.76'' (7.0 cm.) [W] 1.18'' (2.9 cm.) [D] Single-Gang Trim Plate: 5.25'' (13.3 cm.) [H] 4.58'' (11.6 cm.) [W] 0.32'' (0.81 cm.) [D]

Mounting and Wiring Properties

MODEL `SL2'series	
INDOOR MOUNTING:	- Wall-mount applications - Model SL2SBB to any Single-Gang Backbox or to 4" (10.2 cm.) square box with trim plate and separately ordered mud-ring
WIRING TYPE:	#12 – #18, American Wire Gauge (AWG)

Details for Ordering

MODEL	PART NUMBER	APPLIANCE TYPE	MOUNTING TYPE	STROBE TYPE	FACEPLATE COLOR	FACEPLATE LETTERING
SL2HWR-N	S54329-F85-A1	Horn	WALL	– None –	RED	– No Lettering –
SL2HWW-N	S54329-F86-A1		WALL	– None –	WHITE	– No Lettering –
SL2HSWR-A	S54329-F97-A1	Horn-Strobe	WALL	Clear	RED	AGENT
SL2HSWW-A	S54329-F102-A1		WALL	Clear	WHITE	AGENT
SL2HSWR-AL	S54329-F98-A1	Horn-Strobe	WALL	Clear	RED	ALERT
SL2HSWW-AL	S54329-F103-A1		WALL	Clear	WHITE	ALERT
SL2HSWR-F	S54329-F99-A1	Horn-Strobe	WALL	Clear	RED	FIRE
SL2HSWW-F	S54329-F105-A1		WALL	Clear	WHITE	FIRE
SL2HSWR-N	S54329-F100-A1	Horn-Strobe	WALL	Clear	RED	– No Lettering –
SL2HSWW-N	S54329-F106-A1		WALL	Clear	WHITE	– No Lettering –
SL2HSWR-FB	S54329-F101-A1	Horn-Strobe	WALL	Clear	RED	– Pictogram –
SL2HSWW-FB	S54329-F107-A1		WALL	Clear	WHITE	– Pictogram –
SL2HSWW-EV	S54329-F104-A1	Horn-strobe	WALL	Clear	WHITE	Evacuation
SL2SWR-ALA	S54329-F202-A1	Strobe	WALL	Amber	RED	ALERT
SL2SWW-ALA	S54329-F211-A1		WALL	Amber	WHITE	ALERT
SL2SWR-NA	S54329-F203-A1	Strobe	WALL	Amber	RED	– No Lettering –
SL2SWW-NA	S54329-F212-A1		WALL	Amber	WHITE	– No Lettering –
SL2SWR-ALB	S54329-F204-A1	Strobe	WALL	Blue	RED	ALERT
SL2SWW-ALB	S54329-F213-A1		WALL	Blue	WHITE	ALERT
SL2SWR-NB	S54329-F205-A1	Strobe	WALL	Blue	RED	– No Lettering –
SL2SWW-NB	S54329-F214-A1		WALL	Blue	WHITE	– No Lettering –
SL2SWR-A	S54329-F206-A1	Strobe	WALL	Clear	RED	AGENT
SL2SWW-A	S54329-F215-A1		WALL	Clear	WHITE	AGENT
SL2SWR-AL	S54329-F207-A1	Strobe	WALL	Clear	RED	ALERT
SL2SWW-AL	S54329-F216-A1		WALL	Clear	WHITE	ALERT
SL2SWR-F	S54329-F208-A1	Strobe	WALL	Clear	RED	FIRE
SL2SWW-F	S54329-F218-A1		WALL	Clear	WHITE	FIRE
SL2SWR-N	S54329-F209-A1	Strobe	WALL	Clear	RED	– No Lettering –
SL2SWW-N	S54329-F219-A1		WALL	Clear	WHITE	– No Lettering –
SL2SWR-FB	S54329-F210-A1	Strobe	WALL	Clear	RED	– Pictogram –
SL2SWW-FB	S54329-F220-A1		WALL	Clear	WHITE	– Pictogram –
SL2SWW-EV	S54329-F217-A1	Strobe	WALL	Clear	WHITE	Evacuation
SL2SBB-R	S54329-F221-A1	Backbox	WALL	– None –	RED	– No Lettering –
SL2SBB-W	S54329-F222-A1		WALL	– None –	WHITE	– No Lettering –