

Notification Appliances

'SL2' 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 adjustor
 - Six (6) field-selectable settings in one (1) device: 15cd | 30cd | 75cd | 110cd | 150cd | 177cd
- 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
- RoHS Compliant

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 | 150cd | 177cd) 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 `SL2HC'-series horn appliances work in either 12V or 24VDC, whereas the Series `SL2SC' and `SL2HSC' strobe and horn-strobe devices are specifically designed for 24V operation. The `SL2'-series is apt for indoor, ceiling-mount applications.



Model SL2HCW-N
Horn



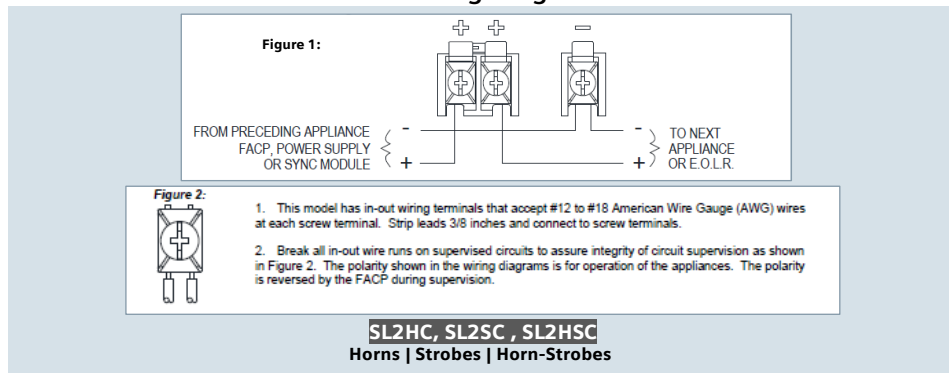
Model SL2SCR-F
Strobe



Model SL2HSCW-F
Horn-Strobe



Wiring Diagrams



Specifications

In terms of composition and functionality, Models `SL2HC`-series, `SL2SC`-series, and `SL2HSC`-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 | 150cd | 177cd
- 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.

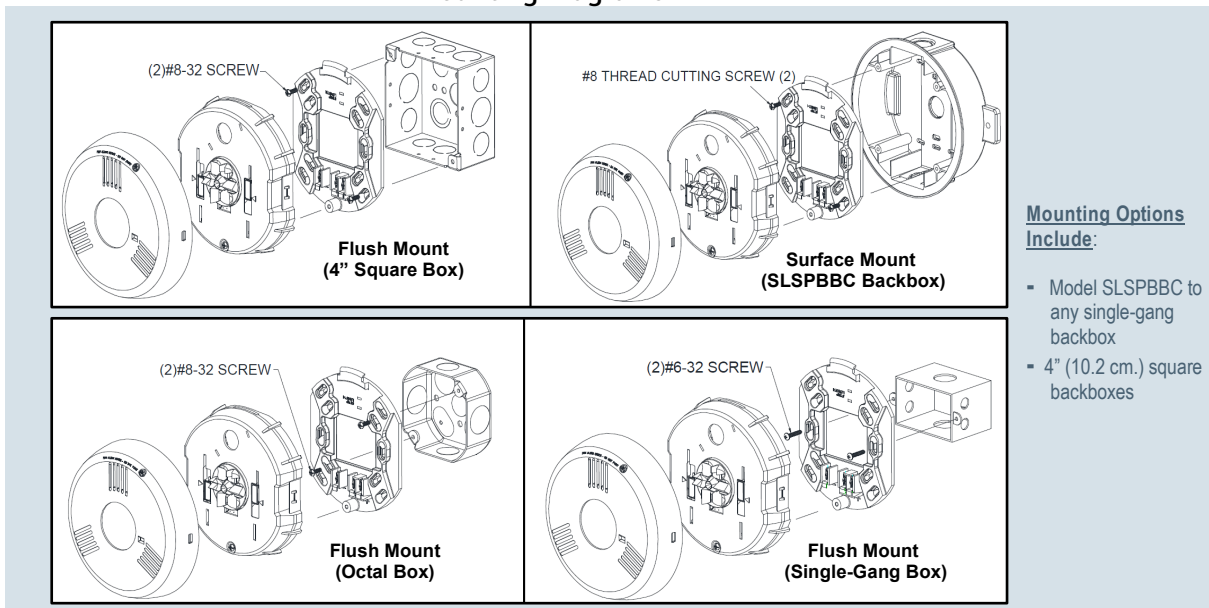
The Horns, Strobes and Horn-Strobes in this Siemens `SL2`-series of notification appliances have received UL / ULC Listed status by attaining compatible testing standards with all Siemens fire-alarm control panels (FACPs) and accessories that have been determined to be aligned with existing Siemens strobe-based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



Technical Data

Horn-Strobes | Output Current Draw

Current Ratings (Amps @ 24V) HIGH dB							
Model SL2HSC ¹ Series: ²	Setting	15cd	30cd	75cd	110cd	150cd	177cd
	CONT	0.037	0.046	0.077	0.109	0.146	0.208
	T3						
	T3/T4						
Current Ratings (Amps @ 24V) LOW dB							
Model SL2HSC ¹ Series: ²	Setting	15cd	30cd	75cd	110cd	150cd	177cd
	CONT	0.030	0.039	0.070	0.102	0.139	0.201
	T3						
	T3/T4						

Horn-Only | Output Current Draw

Current Ratings (Amps)				
RMS Current @ 24VDC				
Model 'SL2HC' Series: ³	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

Current Ratings (Amps)						
Model SL2SC ¹ Series: ²	Regulated Voltage Range					
	16.0 – 33.0 VDC			16.0 – 33.0 VRMS		
	15cd	30cd	75cd	110cd	150cd	177cd
	0.022	0.030	0.060	0.086	0.125	0.185

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.

Horn | Output Ratings (UL)

UL Sound Output Ratings (dBA)			
Reverberant per UL464 @ 10 feet			
Model SL2HC ¹ – and – SL2HSC ² Series: ³	Setting	SL2HC @ 12VDC	SL2HC & SL2HSC @ 24VDC
	CONT T3 T3/T4	High dBA	High dBA
		80	80
	CONT T3 T3/T4	Low dBA	Low dBA
	78	78	

Horn | Output Ratings (ULC)

ULC Sound Output Ratings (dBA)			
Anechoic per ULCS525-16 @ 3.05 meters			
Model SL2HC ¹ – and – SL2HSC ² Series: ³	Setting	SL2HC @ 12VDC	SL2HC & SL2HSC @ 24VDC
	CONT T3 T3/T4	High dBA	High dBA
		85	91
	CONT T3 T3/T4	Low dBA	Low dBA
	79	86	

¹ RMS current ratings are per UL maximum RMS method.

² UL max current rating is the maximum RMS current within the listed voltage range (16 - 33V for 24V)

³ For audible appliances, the max current is usually at the maximum listed voltage (16 - 33V for 24V units)

⁴ For unfiltered FWR ratings, see installation instructions

Technical Data

General Properties

MODEL 'SL2'-series	
OPERATING TEMPERATURE:	<ul style="list-style-type: none"> 32°F (0°C) to 122°F (50°C) for indoor use only
RELATIVE HUMIDITY:	93%, maximum
OPERATING VOLTAGE RANGES:	<ul style="list-style-type: none"> 12 VDC / VFWR → 8.0 - 17.5 V 24 VDC / VFWR → 16.0 – 33.0 V (12 VDC for Model SL2HC only)
STROBE OUTPUT RATING:	<ul style="list-style-type: none"> UL 1638, 1971 ULC-S526-16 Field-selectable 15cd 30cd 75cd 110cd 150cd 177cd Candela outputs
STROBE FLASH RATE:	Strobes are designed to flash at one-flash-per-second
STROBE SYNCHRONIZATION:	<ul style="list-style-type: none"> all Siemens Addressable Panels Siemens PAD-series NAC extenders Siemens Dual-Sync (DSC) modules, which provide the unique Siemens proprietary synchronization protocol
TEMPORAL PATTERN:	<ul style="list-style-type: none"> 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) <p>NOTES: The Code 3 pattern is specified by ANSI and NFPA 72 for Standard Emergency Evacuation Signaling.</p>

Physical Properties

MODEL 'SL2'-series	
MATERIAL:	<ul style="list-style-type: none"> White-or-red textured, ultraviolet (UV) stabilized, colored impregnated engineered plastic Exceeds 94V-0 UL flammability rating
WEIGHT:	0.55 Lbs. (0.24 Kg.)
LENS TYPE:	LED strobe situated in a rugged Lexan lens
DIMENSIONS:	<p><u>Horns:</u> 6.27"(15.9 cm.) x 6.27"(15.9 cm.) x 1.32" (3.35 cm.)</p> <p><u>Horn-Strobes:</u> 6.27"(15.9 cm.) x 6.27"(15.9 cm.) x 1.69" (4.29 cm.)</p>

Mounting and Wiring Properties

MODEL 'SL2'-series	
INDOOR MOUNTING:	<ul style="list-style-type: none"> Ceiling-mount applications Model SLSPBBC to any Single-Gang Backbox or to 4" (10.2 cm.) Square Box
WIRING TYPE:	#12 – #18, American Wire Gauge (AWG)

Details for Ordering						
MODEL	PART NUMBER	APPLIANCE TYPE	MOUNTING TYPE	STROBE TYPE	FACEPLATE COLOR	FACEPLATE LETTERING
SL2HCR-N	S54329-F83-A1	Horn	CEILING	- None -	RED	- No Lettering -
SL2HCW-N	S54329-F84-A1		CEILING	- None -	WHITE	- No Lettering -
SL2HSCR-A	S54329-F87-A1	Horn-Strobe	CEILING	Clear	RED	AGENT
SL2HSCW-A	S54329-F92-A1		CEILING	Clear	WHITE	AGENT
SL2HSCR-AL	S54329-F88-A1	Horn-Strobe	CEILING	Clear	RED	ALERT
SL2HSCW-AL	S54329-F93-A1		CEILING	Clear	WHITE	ALERT
SL2HSCR-F	S54329-F89-A1	Horn-Strobe	CEILING	Clear	RED	FIRE
SL2HSCW-F	S54329-F94-A1		CEILING	Clear	WHITE	FIRE
SL2HSCR-N	S54329-F90-A1	Horn-Strobe	CEILING	Clear	RED	- No Lettering -
SL2HSCW-N	S54329-F95-A1		CEILING	Clear	WHITE	- No Lettering -
SL2HSCR-FB	S54329-F91-A1	Horn-Strobe	CEILING	Clear	RED	- Pictogram -
SL2HSCW-FB	S54329-F96-A1		CEILING	Clear	WHITE	- Pictogram -
SL2SCR-ALA	S54329-F182-A1	Strobe	CEILING	Amber	RED	ALERT
SL2SCW-ALA	S54329-F191-A1		CEILING	Amber	WHITE	ALERT
SL2SCR-NA	S54329-F183-A1	Strobe	CEILING	Amber	RED	- No Lettering -
SL2SCW-NA	S54329-F192-A1		CEILING	Amber	WHITE	- No Lettering -
SL2SCR-ALB	S54329-F184-A1	Strobe	CEILING	Blue	RED	ALERT
SL2SCW-ALB	S54329-F193-A1		CEILING	Blue	WHITE	ALERT
SL2SCR-NB	S54329-F185-A1	Strobe	CEILING	Blue	RED	- No Lettering -
SL2SCW-NB	S54329-F194-A1		CEILING	Blue	WHITE	- No Lettering -
SL2SCR-A	S54329-F186-A1	Strobe	CEILING	Clear	RED	AGENT
SL2SCW-A	S54329-F195-A1		CEILING	Clear	WHITE	AGENT
SL2SCR-AL	S54329-F187-A1	Strobe	CEILING	Clear	RED	ALERT
SL2SCW-AL	S54329-F196-A1		CEILING	Clear	WHITE	ALERT
SL2SCR-F	S54329-F188-A1	Strobe	CEILING	Clear	RED	FIRE
SL2SCW-F	S54329-F198-A1		CEILING	Clear	WHITE	FIRE
SL2SCR-N	S54329-F189-A1	Strobe	CEILING	Clear	RED	- No Lettering -
SL2SCW-N	S54329-F200-A1		CEILING	Clear	WHITE	- No Lettering -
SL2SCR-FB	S54329-F190-A1	Strobe	CEILING	Clear	RED	- Pictogram -
SL2SCW-FB	S54329-F201-A1		CEILING	Clear	WHITE	- Pictogram -
SL2SCW-EV	S54329-F197-A1	Strobe	CEILING	Clear	WHITE	Evacuation
SLSPBCCR	S54329-F55-A1	Backbox	CEILING	- None -	RED	- No Lettering -
SLSPBCCW	S54329-F55-A2		CEILING	- None -	WHITE	- No Lettering -

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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