

# Notification Appliances

## 'SL2' Series - Low-Frequency Sounders | Sounder-Strobes

Applications : Indoor, Ceiling-Mount

### 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
  - Means to have existing Xenon and new LED strobes in the same field-of-view
  - 110cd or 177cd Candela settings for Model 'SL2FSSC'-series sounder-strobes
- Straightforward installation coupled with compact, modern design
  - Built-in level adjustment component with snap-on grille front cover
  - Manual (index finger) slide-setting adjustor
- Four (4) temporal-pattern settings in each notification appliance
  - 'T3' (for FIRE) setting
  - Continuous (coded) setting
  - T3/T4 (for FIRE with CO) dual-sync setting
  - 'T4' (for CO) setting
- Dual, low-frequency sounder codes in each appliance
  - Meets NFPA-72 for Fire-Alarm and Carbon Monoxide
- UL (2034 | 1971 | 464) Listed, ULC (-S525 | ULC-S526) Listed
- FM & CSFM Approved

### Product Overview

Siemens is offering new technologically advanced sounder and sounder-strobes to its 'SL2'- Series notification-appliances portfolio. The 'SL2FSC'-series Sounders and 'SL2FSSC'-series Sounder-Strobes are rated as low-frequency devices per UL 464. The sounder-strobes meets the National Fire Protection Association (NFPA) code requirements for recognized sleeping areas:

- NFPA-72 for fire alarm
- NFPA-72 (2016 ed. for 20-millisecond light pulse duration)

Each Model in SL2FSC-series Sounders and SL2FSSC-series Sounder-Strobe appliances have an advanced, power-saving light-emitting diode (LED) technology with three (3) modes of 520 Hertz operation (for the sounder portion of these notification appliances) :

- Code 3 (T3) – FIRE / Emergency Evacuation
- Code 4 (T4) – CO
- Continuous (coded) dual-sync (T3 / T4) control for FIRE and CO signaling

The 'SL2' -series notification appliances are compatible with all Siemens' Fire Alarm Control Panels (FACPs), with Siemens PAD-series of NAC extenders and with Dual-Sync Control (DSC) modules.

The 'SL2FSSC'-series of sounder-strobes are produced in a sleek, modern design. It's fitting 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 inclusive trim plate makes for easy installation for retrofit projects that already have backboxes installed.

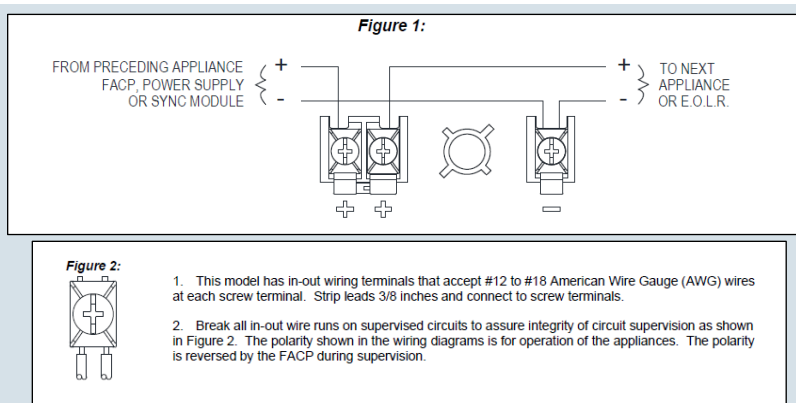
The 'SL2'-series sounders and sounder-strobe appliances are for indoor applications only. The 'SL2FSSC'-series Sounder-Strobes are used for Ceiling-mount applications and the 'SL2FS'-series Sounders can be Wall or Ceiling-mounted.



**Model SL2FSSCR-F  
Sounder-strobe**



## Wiring Diagrams



## Specifications

In terms of composition and functionality, Models `SL2FSC'-series and `SL2FSSC'-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 with pre-wired mounting plate
- Multiple 520 Hz modes of operation
- Easy-to-adjust selection-slider switch for Temporal Pattern
  - No tools required for setting changes
  - All Model sounder-strobes include an 110 / 177cd setting
- Reduced current draw, via cutting-edge LED technology

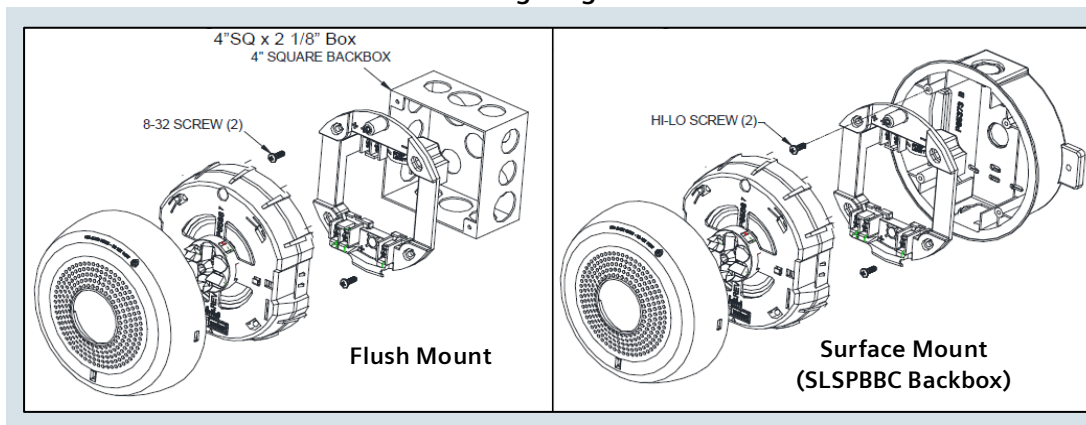
The LED portion of the Siemens `SL2'-series of sounder-strobes meets the 20-millisecond light-pulse-duration requirements of the 2016 edition of NFPA 72. By meeting this latest requirement, existing Xenon as well as the new LED-technology devices can now be in the same field-of-view. In addition to the launched product line of Siemens `SL2'-series of sounder-strobes, Siemens also offers an existing range of products with low-and-high Candela settings that meet retrofit and new-construction applications.

The Siemens `SL2'-series of sounder-strobes 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 ST | SE | SEH | SET | S-HQ | STH | AS | CH | HS | MTH | SL and Z- Series notification appliances.

Siemens Low Frequency Sounder-Strobe can be synchronized with an FACP with Siemens Sync Protocol, a DSC Sync Module or a Siemens Power Supply.

All types of these low-frequency strobes are UL1638, UL1971, CAN/ULC-S526-16 Listed and sounders are UL464, CAN/ULC-S525-16 Listed.

## Mounting Diagrams



## Electrical Ratings

### Output Current Draws

Sounder-Strobe Current Ratings Direct Current (DC) in Amps**			
MODEL 'SL2FSSC' SERIES: ^	Setting	16.0 – 33.0 VDC	
		@ 110cd	@ 177cd
	Continuous	0.164	0.256
	Temporal 3	0.164	0.256
	Temporal 3 / Temporal 4	0.164	0.256

Sounder Current Ratings Direct Current (DC) in Amps**		
MODEL 'SL2FSC' SERIES: ^	Setting	16.0 – 33.0 VDC
	Continuous	0.098
	Temporal 3	0.098
	Temporal 3 / Temporal 4	0.098

\*\* Setting will determine the current draw of the product.

### Sounder / Sounder-Strobes – Sound Pressure Level (SPL)

UL Sound Output Ratings (dBA) Reverberant per UL464 @ 10 feet				
MODELS 'SL2FSC' and 'SL2FSSC' SERIES:	Setting	16.0 VDC	24.0 VDC	33.0 VDC
	Continuous	80	80	80
	Temporal 3	80	80	80
	Temporal 3 / Temporal 4	80	80	80

ULC Sound Output Ratings (dBA) Anechoic* per ULC-S525-16 @ 3.05 meters				
MODELS 'SL2FSC' and 'SL2FSSC' SERIES:	Setting	16.0 VDC	24.0 VDC	33.0 VDC
	Continuous	80	80	80
	Temporal 3	80	80	80
	Temporal 3 / Temporal 4	80	80	80

\* For dwelling use only

^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 strobes, the UL max current is usually at the minimum listed voltage

^ For audible appliances, the max current is usually at the maximum listed voltage

^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.

#### SETTINGS:

- The 520 Hz tone is generated within the actual notification appliance.
- When the selector switch is set for **T3** or **T4**, the sound pattern is also generated within the notification appliance. When the selection switch is set to **Continuous**, the product is listed for coded operations.
- The **T3** / **T4** pattern (or any of the three other patterns) pattern must be generated by the Siemens FACP, according to the FIRE or CO `Alarm' condition initially received by the Siemens FACP.

## Technical Data

### General Properties

MODEL 'SL2'-series	
OPERATING TEMPERATURE:	- 32°F (0°C) to 122°F (50°C) - for indoor applications only
RELATIVE HUMIDITY:	93%, maximum
OPERATING VOLTAGE RANGES:	16.0   24.0 and 33.0 VDC
STROBE OUTPUT RATING:	- UL 1971: 110 / 177cd Candela output
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 (Use Continuous Setting on SL2FSC Sounder Only Models) - Code 3 (1/2 second on, 1/2 second off; followed by 1/2 second on, 1-1/2 second off and repeat) - Code 4 - Code 3 / Code 4 Sync Control

NOTES: The Code 3 pattern is specified by ANSI and NFPA 72 for Standard Emergency Evacuation Signaling. The Code 4 temporal pattern (4 cycles of 100 milliseconds ± 10 percent "ON" and 100 milliseconds ± 10 percent "OFF" followed by 5 seconds ± 10 percent "OFF") is specified by NFPA 72.

### Physical Properties

MODEL 'SL2'-series	
MATERIAL:	- White-or-red textured, ultraviolet (UV) stabilized, colored impregnated engineered plastic - Exceeds 94V-0 UL flammability rating
WEIGHT:	1.1lbs
LENS TYPE:	LED strobe situated in a rugged Lexan lens
DIMENSIONS:	6.27"(15.92 cm) -x- 6.27"(15.92 cm) -x- 1.9" (4.82 cm) [Sounders] 6.27"(15.92 cm) -x- 6.27"(15.92 cm) -x- 2.29"(5.81 cm) [Sounder-Strobes]

### Mounting and Wiring Properties

MODEL 'SL2'-series	
INDOOR MOUNTING:	- Ceiling-mount applications for sounder-strobe (Model SL2FSSC) - Wall and ceiling-mount applications for the Model SL2FS-series sounders. - Siemens Model SLSPBBC backboxes and 4" (10.2 cm.) square backboxes
WIRING TYPE:	#12 – #18, American Wire Gauge (AWG)

Details for Ordering						
MODEL	PART NUMBER	LOW FREQUENCY APPLIANCE TYPE	MOUNTING TYPE	STROBE TYPE	FACEPLATE COLOR	FACEPLATE LETTERING
SL2FSCR-AL	S54329-F108-A1	Sounder	CEILING	– None –	RED	ALERT
SL2FSCW-AL	S54329-F112-A1	Sounder	CEILING	– None –	WHITE	ALERT
SL2FSCR-N	S54329-F109-A1	Sounder	CEILING	– None –	RED	– NO LETTERING –
SL2FSCW-N	S54329-F113-A1	Sounder	CEILING	– None –	WHITE	– NO LETTERING –
SL2FSCR-CO	S54329-F110-A1	Sounder	CEILING	– None –	RED	CO
SL2FSCW-CO	S54329-F114-A1	Sounder	CEILING	– None –	WHITE	CO
SL2FSCR-F	S54329-F111-A1	Sounder	CEILING	– None –	RED	FIRE
SL2FSCW-F	S54329-F115-A1	Sounder	CEILING	– None –	WHITE	FIRE
SL2FSSCR-AL	S54329-F124-A1	Sounder-Strobe	CEILING	Clear	RED	ALERT
SL2FSSCW-AL	S54329-F128-A1	Sounder-Strobe	CEILING	Clear	WHITE	ALERT
SL2FSSCR-F	S54329-F126-A1	Sounder-Strobe	CEILING	Clear	RED	FIRE
SL2FSSCW-F	S54329-F130-A1	Sounder-Strobe	CEILING	Clear	WHITE	FIRE
SL2FSSCR-N	S54329-F127-A1	Sounder-Strobe	CEILING	Clear	RED	– NO LETTERING –
SL2FSSCW-N	S54329-F131-A1	Sounder-Strobe	CEILING	Clear	WHITE	– NO LETTERING –
SL2FSSCR-CO	S54329-F125-A1	Sounder-Strobe	CEILING	Clear	RED	CO
SL2FSSCW-CO	S54329-F129-A1	Sounder-Strobe	CEILING	Clear	WHITE	CO
SLSPBBR	S54329-F55-A1	Backbox	CEILING	None	RED	– NO LETTERING –
SLSPBBCW	S54329-F55-A2	Backbox	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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