
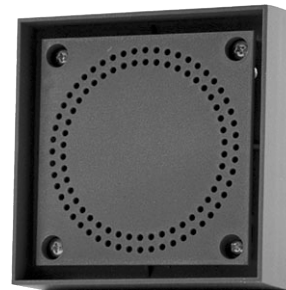


S-LP Speaker Series

Clear-Speak™ Speakers and Speaker Strobes

ENGINEER AND ARCHITECT SPECIFICATIONS

- **The Adapter** feature offers four field selectable candela values - 15/75, 30/75, 75 or 110
- Strobe operates in either sync or non-sync modes
- Clear audio reproduction with selectable audio power taps (1/4, 1/2, 1 & 2 watts)
- Low profile, only 1" deep
- Speakers are available with 25V or 70V audio line matching transformers
- Strobes meet ADA guidelines
-  UL 1480 & UL 1971 listed, CSFM and MEA approved
- UL 1971 listed for both wall and ceiling mount
- ADA/NFPA/ANSI compliant
- Strobe synchronization requires the Dual Sync Control Module or PAD-3
- Terminals accept 12 awg wire
- Made in USA, ISO quality crafted



Speaker



Speaker w/
Adapter Strobe



Ceiling Mount



Speaker Strobe

Description

The Clear-Speak S-LP series speakers are highly efficient 2-watt (maximum output) speakers that have been designed for emergency voice evacuation applications. Each S-LP series speaker is designed to provide a frequency response within the human voice spectrum (ranging from 400 hz and 4000 hz).

The S-LP series speakers are listed in accordance with UL 1480 for speaker appliances and strobe combination units are listed in accordance with UL 1971 (signaling devices for the hearing impaired). The S-LP series speakers are low profile speakers that are available either in 25volt or 70volt versions. Each speaker provides a choice of 4 output taps (ranging from 1/4 watt to 2 watt). All speakers are tapped at 1/4 - watt at the factory.

Models include S-LP25, S-LP25-W, S-LP25-C, S-LP70, S-LP70-W, S-LP70-C, S-LP25-MCS, S-LP25-MCS-W,

S-LP25-MCS-C, S-LP70-MCS, S-LP70-MCS-W, S-LP70-MCS-C, S-LP25MG, S-LP25MG-W, S-LP70MG, S-LP70MG-W, S-LP25MG-MCS, S-LP25MG-MCS-W, S-LP70MG-MCS, S-LP70MG-MCS-W. Variations of the speaker include 25 volt or 70 volt versions, wall and ceiling mount models, wall mount color variations (white or red), the option of providing the Adapter MultiCandela Strobe with the speaker (combination unit), and the option of using a metal grillplate rather than the standard plastic grillplate.

The Adapter feature offers four field selectable candela settings – 15/75, 30/75, 75, or 110.



**DETAIL – ADAPTER
SELECTOR SWITCH**

CATALOG NUMBER

2551

The strobes use a Xenon flashtube with solid state circuitry for maximum reliability and efficiency. The strobes have modern rounded dome shape made of clear polycarbonate for maximum performance. The strobes have a technology call InstaSync built into each unit. The InstaSync technology automatically recognizes the need for the strobe's synchronization function when a DSC (Sync) module or PAD-3 is used for driving the synchronization of a notification appliance circuit (NAC).

Engineering Specification

The audible speaker appliances shall be the Siemens Fire Safety ClearSpeak models S-LP25, S-LP25-W, S-LP25-C, S-LP70, S-LP70-W, S-LP70-C, S-LP25MG, S-LP25MG-W, S-LP70MG, and/or the S-LP70MG-W speakers or approved equal. The audible/visual speaker/strobe appliances shall be the Siemens Fire Safety ClearSpeak models S-LP25-MCS, S-LP25-MCS-W, S-LP25-MCS-C, S-LP70-MCS, S-LP70-MCS-W, S-LP70-MCS-C, S-LP25MG-MCS, S-LP25MG-MCS-W, S-LP70MG-MCS, and/or S-LP70MG-MCS-W speakers/strobes or approved equal. The audible segment of the S-LP series speakers shall be listed to UL 1480, Fire Protective Services for Speaker Appliances. The visual audible segment of the S-LP series speakers shall be listed to UL1971, Standard for Safety Signaling Devices for the Hearing-Impaired. The appliances shall be listed for indoor applications shall meet ADA/NFPA/ANSI standards.

The strobe segment of the S-LP series speaker appliances (S-LP25-MCS, S-LP25-MCS-W, S-LP25-MCS-C, S-LP70-MCS, S-LP70-MCS-W, S-LP70-MCS-C), S-LP25MG-MCS, S-LP25MG-MCS-W, S-LP70MG-MCS and/or S-LP70MG-MCS-W shall produce a flash rate of one (1) flash per second over the operating voltage range limits. The strobes shall consist of a xenon flash tube enclosed in a clear polycarbonate lens. The strobe shall provide a minimum of four (4) field selectable strobe intensity levels, 15/75cd, 30/75cd, 75cd, and 110cd. The appliance shall allow for authorized personnel to select a strobe intensity without requiring the removal of the appliance from its mounting surface. All strobe intensity settings shall be UL1971 listed for both wall and ceiling mount applications. The selector switch shall be tamper resistant. When strobe synchronization is required, the strobe segment will automatically initiate a synchronization protocol when a synchronization control module/circuit is installed on the NAC. All strobe segments shall not drift out of synchronization when a synchronization control module is installed on the NAC.

The audible segment have either a 25 or 70VRMS audio input matching transformer, and shall have field selectable taps of ¼, ½, 1 and 2 watts. All versions shall have a typical* sound output of 88dBA at 10ft. at 2-watts.

The S-LP series speaker and speaker/strobe appliances shall be designed for wall and ceiling mounting. To facilitate trouble-free installations and limit the potential for ground faults associated with shallow back boxes and deep appliances, the depth of wall mount speakers

or speaker/strobe appliances shall be no more than 1" in depth, and the depth of ceiling mount speakers, and metal grill speakers or speaker/strobe appliances shall be no more than 1 – 3/32". All wall mount appliances shall have a square grill and will mount to a 4" square backbox. All ceiling mount appliances shall have a round grille and will mount to a 4" square backbox.

NOTE: These strobes are UL listed and rated as "special application", which represents appliances which have been investigated to operate as described in the product's installation instructions over the voltage range of 16-32VDC or VFWR.

Environmental

Indoor: 32°F to 120°F (0°C to 49°C)
with 85% humidity

Primary Input Voltage

Speaker Transformer: 25V or 70V
Strobe: Operating voltage range limits
16-32Vdc or VFWR

Typical dB Rating @ 10 ft.* (UL Rating @ 10 ft.)

1/4W: 80 dB typical	(75 dB UL)
1/2W: 82 dB typical	(78 dB UL)
1W: 86 dB typical	(81 dB UL)
2W: 88 dB typical	(84 dB UL)

* Typical readings are frontal sound readings taken with a dB meter with signal mounted on wall. Readings, however, are not made in accordance with UL testing procedures and represent realistic use of the product.

Mounting

Flush: 4" square box
Surface: FBX-SF or FBX-S

See the National Electric Code for the exact size box needed as this is dependent on the quantity and size of the wire used.

Shipping Weight (approx.)

S-LP25, S-LP70, S-LP25-W, S-LP70-W, S-LP25MG, S-LP25MG-W, S-LP70MG, S-LP70MG-W: 1-1/4 lbs.

S-LP25-MCS, S-LP25-MCS-W, S-LP70-MCS, S-LP70-MCS-W: 2 lbs.

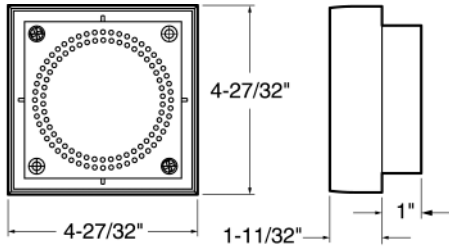
S-LP25-C, S-LP70-C: 1-1/2 lbs.

S-LP25-MCS-C, S-LP70-MCS-C, S-LP25MG-MCS, S-LP25MG-MCS-W, S-LP70MG-MCS, and/or S-LP70MG-MCS-W: 2 lbs.

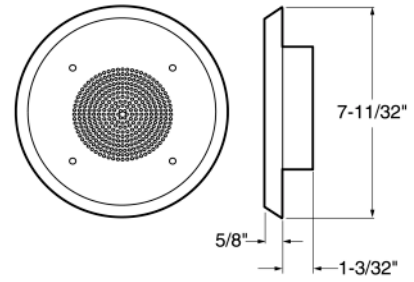
Applications

- For Emergency Voice Evacuation Systems (EVAC).

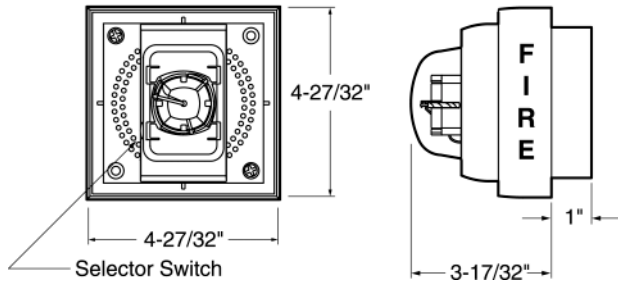
Dimensions



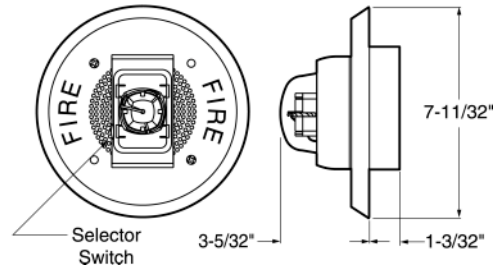
S-LP Series-Wall Mount



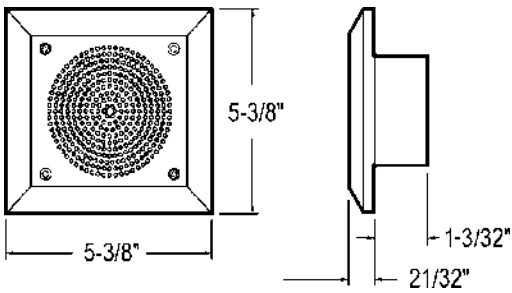
S-LP Series-Ceiling Mount



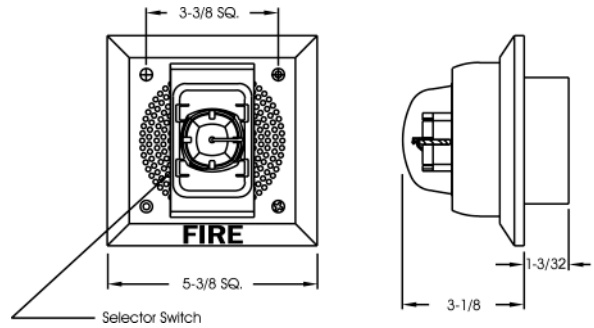
S-LP Series with Adapter Strobe-Wall Mount



S-LP Series with Adapter Strobe-Ceiling Mount



S-LPMG Series -Wall Mount



S-LPMG-MCS Series -Wall Mount

Ordering Information

Model Number	Description	Part Number	Wattage Taps
S-LP25	Speaker 25V	500-698800	1/4, 1/2, 1, 2
S-LP70	Speaker 70V	500-698801	1/4, 1/2, 1, 2
S-LP25-C	Speaker 25V (Ceiling)	500-698844	1/4, 1/2, 1, 2
S-LP70-C	Speaker 70V (Ceiling)	500-698845	1/4, 1/2, 1, 2
S-LP25-W	Speaker 25V (White)	500-698802	1/4, 1/2, 1, 2
S-LP70-W	Speaker 70V (White)	500-698803	1/4, 1/2, 1, 2
S-LP25MG	Speaker 25V Metal Faceplate	500-698866	1/4, 1/2, 1, 2
S-LP25MG-W	Speaker 25V Metal Faceplate (White)	500-698867	1/4, 1/2, 1, 2
S-LP70MG	Speaker 70V Metal Faceplate	500-698868	1/4, 1/2, 1, 2
S-LP70MG-W	Speaker 70V Metal Faceplate (White)	500-698869	1/4, 1/2, 1, 2

Model Number	Description	Part Number	Wattage Taps
S-LP25-MCS	25 Volt w/Adapter Strobe (Red)	500-699718	1/4, 1/2, 1, 2
S-LP25-MCS-W	25 Volt w/Adapter Strobe (White)	500-699720	1/4, 1/2, 1, 2
S-LP25-MCS-C	25 Volt w/Adapter Strobe (Ceiling)	500-699719	1/4, 1/2, 1, 2
S-LP70-MCS	70 Volt w/Adapter Strobe (Red)	500-699721	1/4, 1/2, 1, 2
S-LP70-MCS-W	70 Volt w/Adapter Strobe (White)	500-699723	1/4, 1/2, 1, 2
S-LP70-MCS-C	70 Volt w/Adapter Strobe (Ceiling)	500-699722	1/4, 1/2, 1, 2
S-LP25MG-MCS	25 Volt Metal Grill w/Adapter Strobe (Red)	500-648638	1/4, 1/2, 1, 2
S-LP25MG-MCS-W	25 Volt Metal Grill w/Adapter Strobe (White)	500-648640	1/4, 1/2, 1, 2
S-LP70MG-MCS	70 Volt Metal Grill w/Adapter Strobe (Red)	500-648639	1/4, 1/2, 1, 2
S-LP70MG-MCS-W	70 Volt Metal Grill w/Adapter Strobe (White)	500-648641	1/4, 1/2, 1, 2

Strobe Intensity Setting

15/75 cd
30/75 cd
75 cd
110 cd

Strobe Current Draw

63 mA
84 mA
143 mA
178 mA

Ceiling mount units are white. Specify 25Vac or 70Vac, strobe currents are FullWave / Filtered.

Minimum UL measurements are 78-87dB taken in free air at 360° around the device and averaged. Typical readings are frontal sound readings taken with a dB meter with signal mounted on wall. Environmental ratings 32°F to 120°F, (0°C to 49°C) with 85% RH.

Note: Before operating speaker, make sure that proper tap is selected on speaker. Select power tap by putting shorting jumper between pins next to wattage markings on back of basic speaker unit

Accessories

Model Number	Description
FIB	4" Square Back Box
FBX-S	1.7"D Surface Box
FBX-SF	2.7"D Surface Box
FBX-F	2.7"D Flush Box

Wiring Diagram

