

# Eluxa supervised self-amplified speakers and speaker strobes



## Description

The Eluxa ELSA supervised self-amplified speakers and speaker strobes are designed to meet the critical needs for the life safety industry. These speakers and speaker strobes are a perfect fit for SCIF (Sensitive Compartmented Information Facilities) room applications.

## Features

### Approvals

- UL 1480, ULC541 (speakers)
- UL 1638, ULC526 (speaker strobes)
- Power input voltage 16.0 to 33.0 VDC
- Wall or ceiling models
- Speaker strobes utilize Wheelock's synchronizable multi-candela strobe
- 1-watt high efficiency speaker
- Frequency range of 400Hz to 4000Hz
- Mounts onto a 4" square deep backbox with an extension ring and Wall surface backbox ELSPKBB or Ceiling surface backbox LSPKBB-C

## Specifications

- Power Input Voltage: 16.0 - 33.0 VDC
- Appliance Input Level: 0.5 V RMS or 25 V RMS (Switch selectable)
- Appliance Input Impedance
  - 0.5-V Setting: Greater than 400 Ohms or equivalent to less than 1/1000 W (0.001 W or 1 mW) load
  - 25-V Setting: Greater than 20 k Ohms or equivalent to less than 1/32 W (.03125 W or 31.25 mW) load
- Sound Level Speaker Amplifier Current Draw: Speaker DC Input Current 0.140 Amps RMS maximum

**Note:** Please read these specifications and associated installation instructions, before using, specifying, or installing this product. Visit [Eaton.com/Lifesafetynotification](http://Eaton.com/Lifesafetynotification) for current installation instructions.



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General Notes

- Strobes are designed to flash at 1 flash per second minimum over their “Regulated Voltage Range.” Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second and ADA Guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective Strobe intensity based on UL 1971.
- The volume level has been adjusted to the factory default dBA output. However, the installer may need to adjust the volume setting to better suit the application.

Drawings

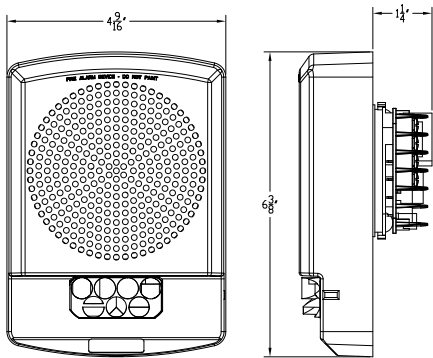


Figure 1. Wall mount

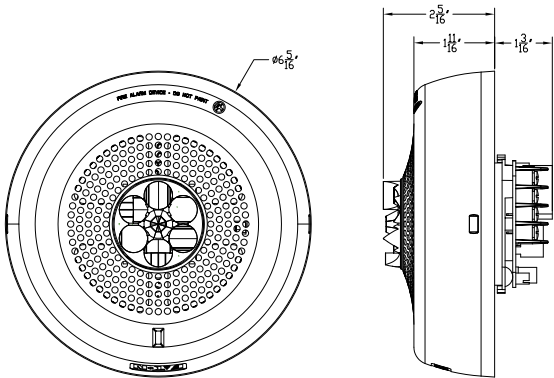


Figure 2. Ceiling mount

Table 1. Strobe ratings clear, amber and blue lens

Model	Regulated Voltage Range VDC	15cd	30cd	75cd	110cd	135cd	150cd	177cd	185cd
<b>Clear and amber lens</b>									
ELSA-SSTC	16.0-33.0	0.017	0.023	0.053	0.079		0.110	0.161	
ELSA-SSTW	16.0-33.0	0.017	0.022	0.053	0.079	0.106			0.161

Model	Regulated Voltage Range VDC	10cd	20cd	55cd	80cd	100cd	130cd
<b>Blue lens</b>							
ELSA-SSTCB	16.0-33.0	0.017	0.022	0.053	0.079	0.106	0.161
ELSA-SSTWB	16.0-33.0	0.017	0.022	0.053	0.079	0.106	0.161

Table 2. Speaker ratings

Setting	Reverberant dBA at 10Ft per UL1480					Anechoic dBA at 10 Ft per ULC541*				
	1	2	3	4	5	1	2	3	4	5
0.5Vrms Audio In	67	70	73	76	79	67	70	73	77	81
25Vrms Audio In	67	70	73	76	79	67	70	73	77	81

\* Dwelling use only in Canada.

**Table 3. Specification & Ordering Information**

Model	Strobe Candela	Lens color	Red	White	Lettering	Wall/ Ceiling	Sync w/ DSM or Wheelock Power Supplies
<b>Speakers</b>							
ELSA-SW-R	N/A	N/A	X		No lettering	Wall	X
ELSA-SW-W	N/A	N/A		X	No lettering	Wall	X
ELSA-SC-R	N/A	N/A	X		No lettering	Ceiling	X
ELSA-SC-W	N/A	N/A		X	No lettering	Ceiling	X
<b>Speaker Strobes</b>							
ELSA-SSTW-FR		Clear	X		Fire	Wall	X
ELSA-SSTW-FW		Clear		X	Fire	Wall	X
ELSA-SSTC-FR		Clear	X		Fire	Ceiling	X
ELSA-SSTC-FW		Clear		X	Fire	Ceiling	X
ELSA-SSTW-ALR		Clear	X		ALERT	Wall	X
ELSA-SSTW-ALW		Clear		X	ALERT	Wall	X
ELSA-SSTC-ALW		Clear		X	ALERT	Ceiling	X
ELSA-SSTCA-ALW		Amber		X	ALERT	Ceiling	X
ELSA-SSTCB-NW		Blue		X	No lettering	Ceiling	X
ELSA-SSTWA-ALW		Amber		X	ALERT	Wall	X
ELSA-SSTWB-NW		Blue		X	No lettering	Wall	X

**Table 4. Specifications**

<b>Physical</b>	
Material	Red or white textured UV stabilized, colored impregnated engineered plastic. Exceeds 94V-0 UL flammability rating
Weight	Wall and ceiling speaker strobe: 1.54 lbs (700g); Speaker Backbox: .44 lb (200g);
Lens	Light Emitting Diode (LED) in a rugged Lexan lens
Dimensions	ELSA-S: 6.35"H x 4.56" W x 1.54" D; ELSA-SSTW: 6.35"H x 4.56" W x 1.54" D; ELSA-SSTC: 6.27 Diameter x 1.9" D; ELSPSTC: 6.27 Diameter x 2.29" Depth
Operating Temperature	Indoor: 32°F to 122°F (0°C to 50°C) and maximum humidity of 93%
<b>Mounting &amp; Wire Connections</b>	
Mounting (indoor only)	Mounting plate included with all models. ELSA-SSTW speaker strobes are for wall-mount applications only. Mounting to include ELSPKBB backboxes or to 4" square 2 1/8 deep backboxes with extension ring. ELSA-SSTC speaker strobes are for ceiling-mount applications only. Mounting to include LSPKBB-C backboxes or to 4" square 2 1/8 deep backboxes with extension ring.
Wire Connections	#12 through #18 AWG
<b>Power &amp; General</b>	
Operating voltage	0.5/25 VRMS
Strobe Output Rating	UL 1971, ULC S526: Wall: Selectable 15, 30, 75, 110, 135, 185 candela output; Ceiling: Selectable 15, 30, 75, 110, 150, 177 candela output for both clear and amber lens. Blue lens wall and ceiling as follows: 10, 20, 55, 80, 100, 130cd
Frequency range	400Hz to 4000Hz

## Architects and Engineers Specifications

The Wheelock Eluxa ELSA-SSTC Self-Amplified Speaker-Strobe is UL Listed under Standards UL1638 and ULC526 (Visible Signaling Devices for Fire Alarm and Signaling Systems), and UL1480 and ULC541 (Speakers for Fire Alarm and Signaling Systems). ELSA-SC Speaker is for indoor fire protection service and provides a choice of 5 different sound output levels and operates with audio input levels of 0.5 V RMS and 25 V RMS by means of selectable switch settings. The low-profile design incorporates a high efficiency speaker for maximum output at minimum power across a frequency range of 400Hz to 4000Hz and features a sealed back construction for extra protection and improved audibility. The appliance mounts onto a 4" square deep back box with an extension ring. All inputs are polarized for compatibility with standard reverse polarity supervision of wiring via a Control Panel.

The Eluxa ELSA-SSTCA Speaker-Strobes with Amber lens are are certified for Emergency Warning Use which meets the requirements for Public Mode signaling requirements. Amber lens strobe appliances also comply with the polar distribution requirements for Indoor Fire Protection Service and NFPA-72 for Mass Notification Systems. All Eluxa blue lens strobes are certified for Private Mode use and can be used in a wide range of applications subject to AHJ approval.

The Wheelock Eluxa Series meets NFPA 2016 20 millisecond light pulse duration code requirements. In addition, the Wheelock Eluxa and LED3 product lines have been UL/ULC listed as compatible with all Fire Alarm Control Panels (FACP) and accessories that have been determined to be compatible with Wheelock model RSS Strobe based products including the RSS, CH, E, EH, ET, ST, HS, MT, S8, SA, STH and Z Series. The maximum number of Eluxa devices per NAC is determined by dividing the maximum current rating of the FACP NAC by the total current rating of one Eluxa device, with a maximum of 105 Eluxa (or LED3) devices per NAC. Refer to FACP installation instructions for more detail. The Wheelock Eluxa Series and Exceder LED3 Series strobes may be installed in the same notification zone and field of view with any RSS Strobe based product.

The ceiling mount Speaker Strobe clear and amber models shall provide 15, 30, 75, 110, 150, 177 candela options. The wall mount Speaker Strobe clear and amber models shall provide 15, 30, 75, 110, 135, 185 candela options. The Speaker Strobe blue models, both wall and ceiling, shall provide 10, 20, 55, 80, 100, 130 candela options. All strobe candela options shall be field selectable via a tamper resistant selector switch. The Strobe uses a LED with solid-state circuitry enclosed in a rugged polycarbonate lens to provide maximum visibility and reliability for effective visible signaling.

The Eluxa ELSA series shall be listed for indoor use only.



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