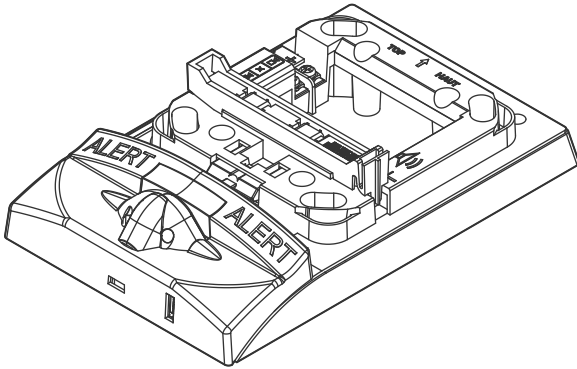




# G4SE Genesis LED Strobe Expander Installation Sheet



## Description

G4SE Genesis LED Strobe Expanders add a second synchronizable, multicable strobe to Genesis LED G4 horn/strobes and Genesis LED G4S speaker/strobes. Together, they provide fire alarm signaling and mass notification/emergency communication signaling in one compact assembly.

**Note:** Synchronized operation requires a separately installed synchronization device. See the control unit or power supply compatibility list for compatible synchronization devices.

This document provides installation instructions for the G4SE strobe expander models listed in Table 1 below.

Table 1: Models

Model	Description
G4SEWA-A	Strobe expander, white, "ALERT," amber lens
G4SEWA-R	Strobe expander, white, "ALERT," red lens
G4SEWA-G	Strobe expander, white, "ALERT," green lens
G4SEWA-B	Strobe expander, white, "ALERT," blue lens
G4SEWN-A	Strobe expander, white, no marking, amber lens
G4SEWN-R	Strobe expander, white, no marking, red lens
G4SEWN-G	Strobe expander, white, no marking, green lens
G4SEWN-B	Strobe expander, white, no marking, blue lens
G4SERA-A	Strobe expander, red, "ALERT," amber lens

## Wiring

Wire the G4SE as shown in Figure 2 and Figure 3.

**Note:** To maintain circuit continuity, do not remove the shorting clip until you are ready to install the notification appliance.

## Installation

Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

**Caution:** Electrical supervision requires that you break the wire run at each terminal. Do not loop the notification circuit field wires around the terminals.

For new flush mount installations, install the electrical box so the bottom is at least 83 inches above the finished floor. See Figure 1.

### To install the G4SE strobe expander:

1. Attach the G4SE strobe expander to a standard metal electrical box. Use the screws provided with the electrical box. Tighten until flush with the mounting surface.
2. Run the field wires through the strobe expander opening, and then connect them to the terminal screws. See Figure 2 and Figure 3.
3. Remove the shorting clip and then install the notification appliance. Refer to the notification appliance's installation sheet for instructions.

Figure 1: Typical flush mount installation

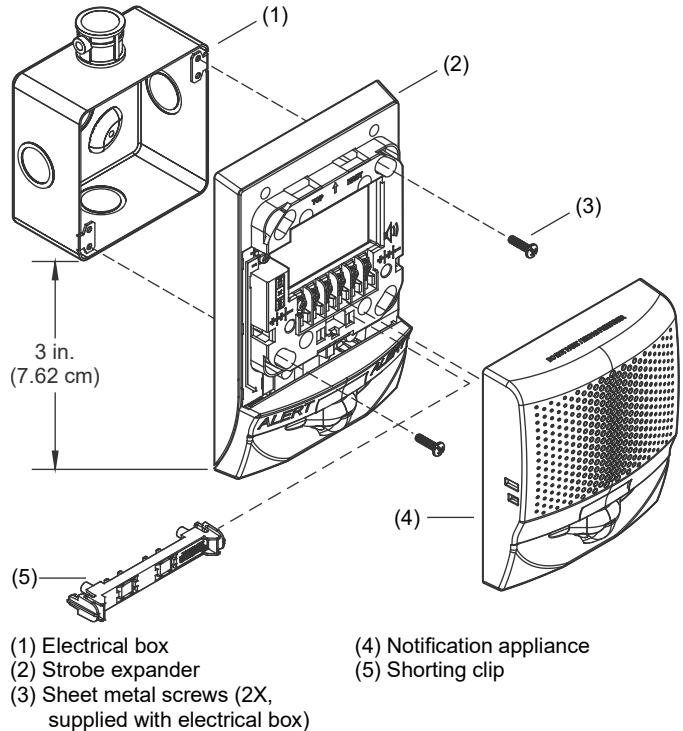
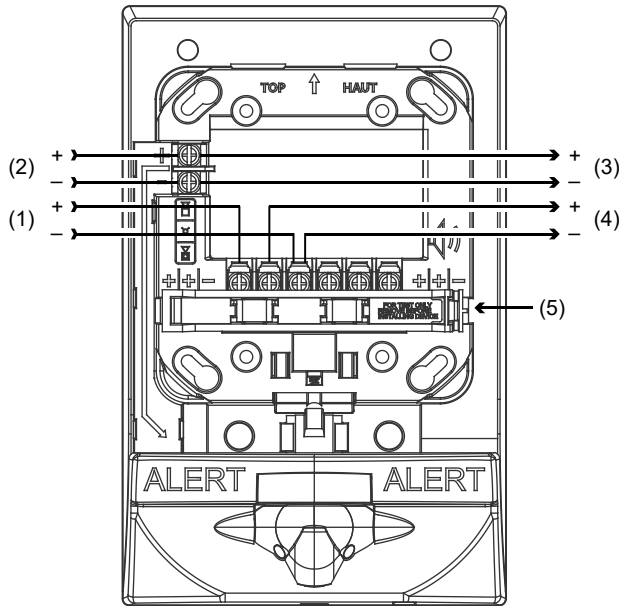
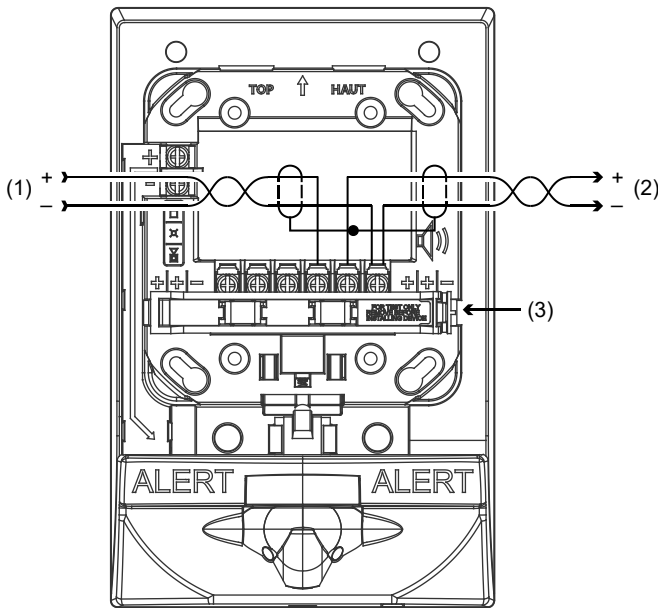


Figure 2: G4SE strobe circuit wiring



- (1) Notification appliance strobe circuit in (signal polarity shown in the active condition)
- (2) Expander strobe circuit in (signal polarity shown in the active condition)
- (3) Expander strobe circuit out
- (4) Notification appliance strobe circuit out
- (5) Shorting clip

Figure 3: G4SE speaker circuit wiring



- (1) Speaker circuit in (shields, if used, must be continuous and free from earth ground except at the signal source)
- (2) Speaker circuit out
- (3) Shorting clip

### Maintenance and testing

This unit is not serviceable or repairable. Should the unit fail to operate, contact the supplier for replacement.

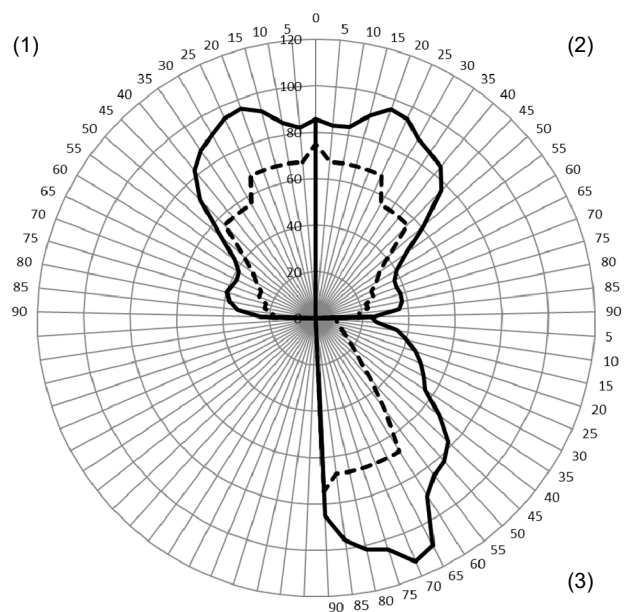
Perform a visual inspection and operational testing upon completion of installation and annually thereafter or as directed by the local authority having jurisdiction.

### Specifications

Operating voltage	16 to 33 VDC, 16 to 33 VFWR
Operating current	
16 to 33 VDC	28 mA
16 to 33 VFWR	36 mA
Light output	
Amber lens (-A models)	75 cd
Green lens (-G models)	65 cd
Blue lens (-B models)	30 cd
Red lens (-R models)	15 cd
Strobe flash rate	1 fps (flash per second) approx.
Light distribution	See Figure 4
Synchronization	20 Ω max. between any two devices. To determine allowed wire resistance, refer to these specifications, and the specifications for the synchronized signal source.
Wire size	12 to 18 AWG (0.75 to 2.50 mm <sup>2</sup> )
Screw torque	
Mounting screws	
Machine screws	5 lbf-in (0.6 N-m, typical)
Plastite screws	15 lbf-in (1.8 N-m), typical
Terminal screws	12 lbf-in (1.4 N-m) max.
Dimensions	See Figure 5
Strobe to box center offset	3.9 in. (9.9 cm)
Compatible electrical boxes	North American 4-inch square box, 2-1/8 inches deep (no extension ring)
Operating environment	
Temperature	32 to 122°F (0 to 50°C)
Relative humidity	0 to 93% noncondensing
Storage temperature	-40 to 158°F (-40 to 70°C)

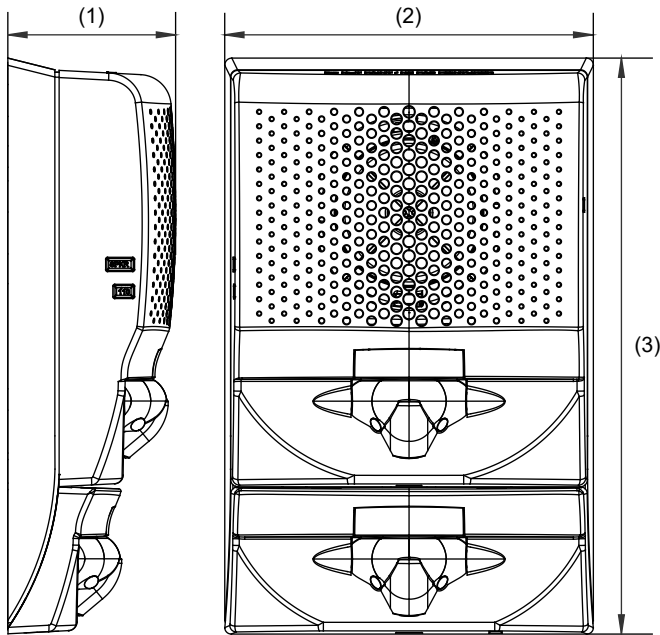
**Note:** This device was tested to the regulated 24 VDC/FWR operating voltage limits of 16 V and 33 V.

Figure 4: 75 cd light distribution



- (1) Horizontal left
  - (2) Horizontal right
  - (3) Vertical bottom
- Measured  
 - - - - - UL minimum

**Figure 5: Dimensions**



(1) 2.33 in. (5.92 cm)  
(2) 5.12 in. (13.0 cm)

(3) 8.0 in. (20.32 cm)

### Regulatory information

UL rating	Regulated 24 DC and 24 FWR
FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Industry Canada compliance	This Class A digital apparatus complies with Canadian ICES-003.
Environmental class	Indoor, dry

### Contact information

For contact information, see [www.edwardsfiresafety.com](http://www.edwardsfiresafety.com).