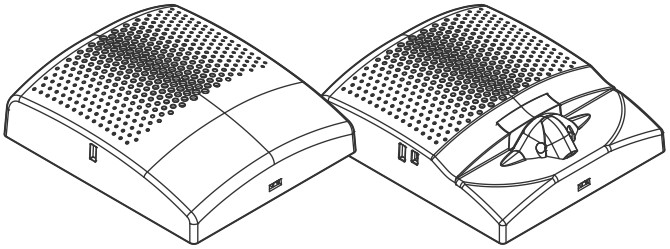
KIDDE COMMERCIAL

Genesis LED EG4S Series Wall Speaker-Strobe Installation Sheet



Description

Genesis LED EG4S speakers and EG4SV speaker-strobes are wall-mounted plug-in fire alarm notification appliances designed for indoor dry applications with 25 or 70 VRMS distributed speaker systems. See the tables below for a list of models.

Table 1: EG4S speaker models

Catalog number	Description
EG4SRF	Speaker, wall, red, FIRE
EG4SRN	Speaker, wall, red, no marking
EG4SWA	Speaker, wall, white, ALERT
EG4SWF	Speaker, wall, white, FIRE
EG4SWN	Speaker, wall, white, no marking

Table 2: EG4SV speaker-strobe models

Catalog number	Description
EG4SVRF	Speaker-strobe, wall, red, FIRE
EG4SVRN	Speaker-strobe, wall, red, no marking
EG4SVWA	Speaker-strobe, wall, white, ALERT
EG4SVWF	Speaker-strobe, wall, white, FIRE
EG4SVWN	Speaker-strobe, wall, white, no marking

Genesis LED EG4S Series speakers and speaker-strobes feature:

- Field-configurable speaker and strobe outputs. See Figure 2 and Figure 3.
- Enhanced synchronization circuitry to comply with the latest requirements of UL 1638 and CAN/ULC-S526.
- Input wiring test points on the front of the appliance when the cover is removed.
- Speakers that are approved for low frequency sounder applications when used with compatible tone file and systems.

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

Configuration

Caution: Equipment damage hazard. Using excessive force when removing the appliance cover may damage the cover and prevent it from latching in place.

To configure the notification appliance:

1. Remove the appliance cover. See Figure 1.

   Insert a small, flat-bladed screwdriver into the slot at the bottom of the appliance.

   Gently pull up on the screwdriver to pry the bottom of the appliance cover down and away from the appliance.

   Lift the bottom of the cover out and over the top of the appliance.
2. On speakers and speaker-strobes, set the speaker wattage and voltage switches for the required values. See Figure 2.
3. On speaker-strobes, set the strobe candela switch for the required value. See Figure 3.
4. Replace the appliance cover.

Figure 1: Removing and replacing the cover

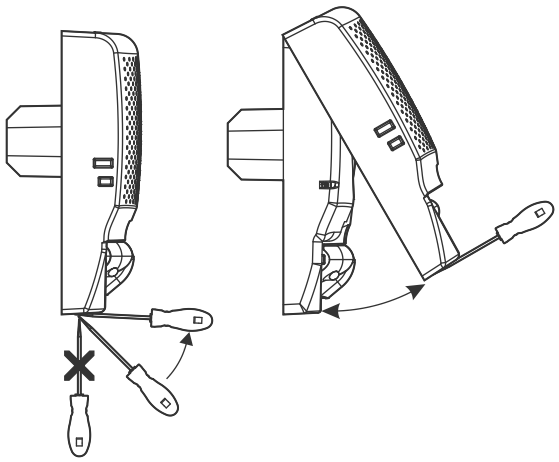
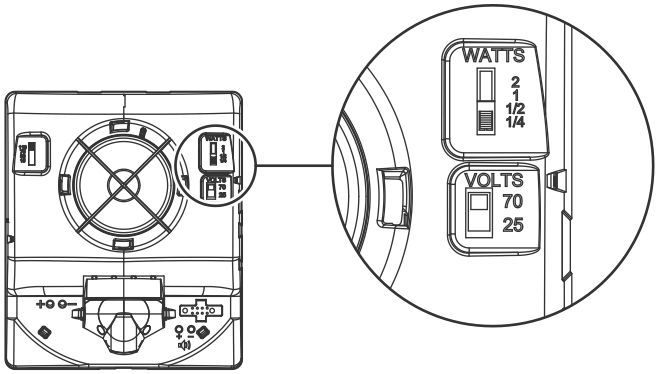


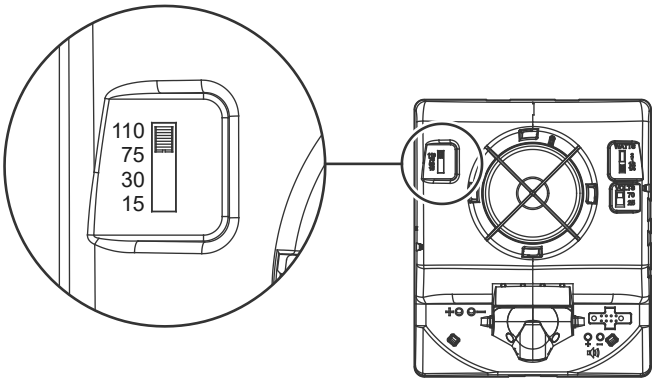
Figure 2: Speaker switch settings



© 2025 Walter Kidde Portable Equipment, LLC

P/N 3102667-EN • REV 004 • REB 18NOV25

Figure 3: Strobe switch settings



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.

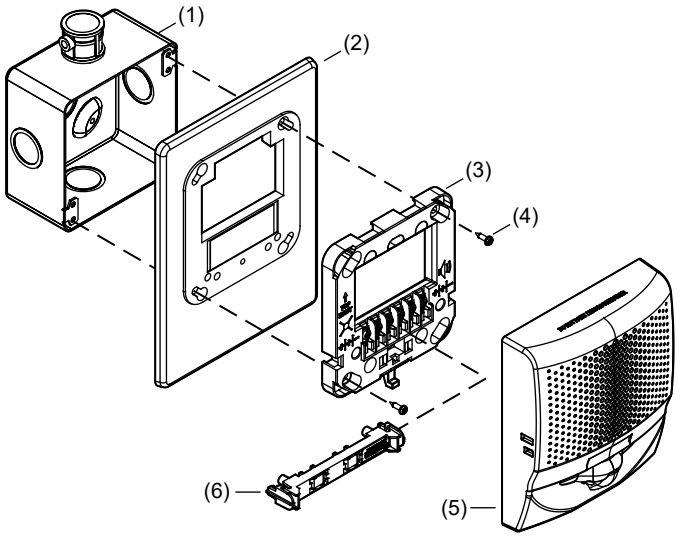
To install the appliance:

1. Using the screws supplied with the wiring plate, attach the wiring plate and, if used, the trim plate to the electrical box. See Figure 4. Do not overtighten the screws.

   The trim plate is ordered separately.
2. Connect the field wiring. Observe signal polarity for the appliance to operate properly. See Figure 5.
3. Remove the shorting clip (Figure 5, item 5). Retain for future use.
4. Plug the appliance into the wiring plate by setting the appliance on the top of the wiring plate, and then snapping the bottom into place. See Figure 6.

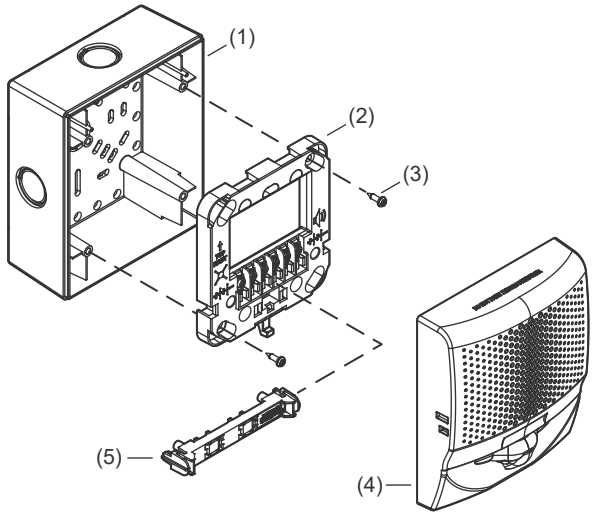
   To unplug the appliance, press the spring clip on the bottom, and then lift the appliance away from the mounting plate.
5. Test the unit for proper operation.

Figure 4: Typical electrical box mounting



(1) Electrical box
(2) Trim plate (optional)
(3) Wiring plate (required)
(4) Machine screw (2X, supplied with wiring plate)
(5) Notification appliance
(6) Shorting clip

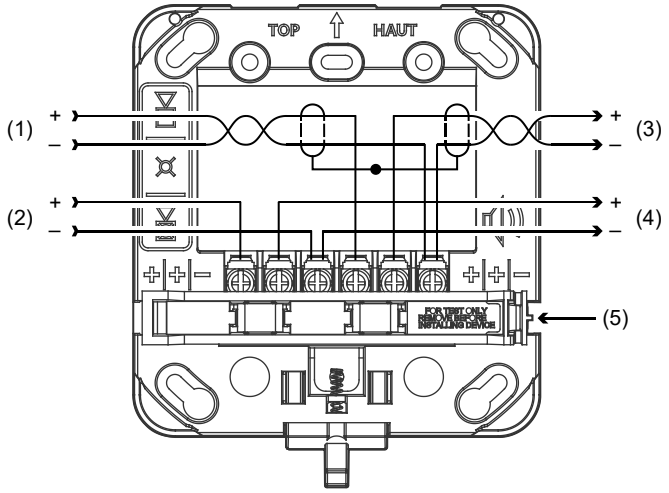
Figure 5: Typical surface box mounting



(1) Surface box
(2) Wiring plate (required)
(3) Machine screw (2X, supplied with wiring plate)
(4) Notification appliance
(5) Shorting clip

P/N 3102667-EN • REV 004 • REB 18NOV25

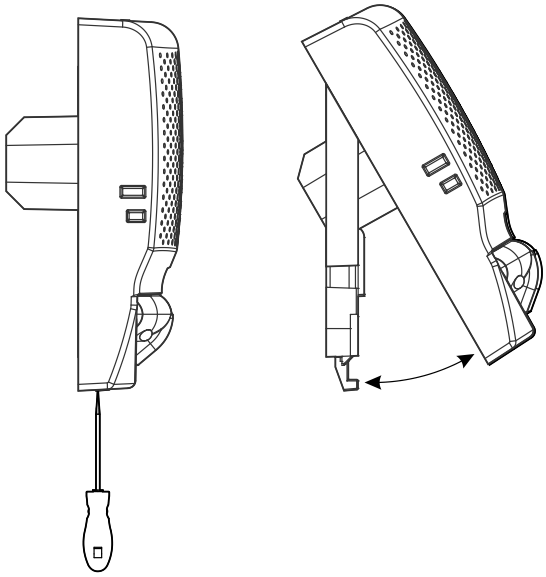
Figure 6: Wiring



(1) Speaker circuit in (shields, if used, must be continuous and free from earth ground except at the signal source)
(2) Strobe circuit in (signal polarity shown in the active condition)
(3) Speaker circuit out
(4) Strobe circuit out
(5) Shorting clip

Note: To maintain circuit continuity, do not remove the shorting clip (Figure 6, item 5) until you are ready to install the notification appliance.

Figure 7: Removing and replacing the appliance



Maintenance and testing

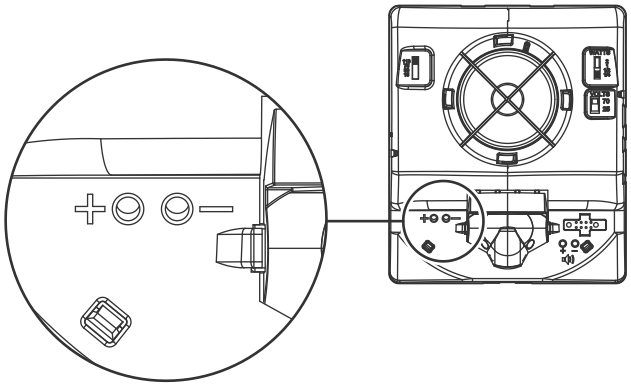
Caution: Equipment damage hazard. To maintain the required agency listings, do not change factory-applied finishes.

This unit is not serviceable or repairable. If the unit fails to operate, contact the supplier for a replacement.

Perform a visual and operational inspection in accordance with applicable codes and standards or as directed by the local authority having jurisdiction.

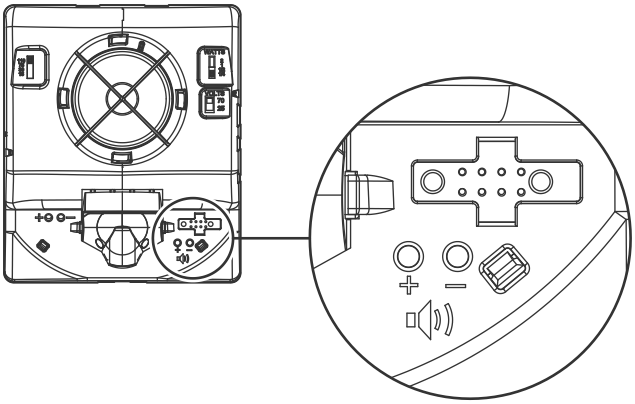
Input wiring test points are available on the front of the appliance when the cover is removed. The test points let you easily spot check the field circuit wiring without the need to remove the appliance from the wall. See Figure 8 and Figure 9.

Figure 8: Strobe circuit test points



Note: Marking indicates signal polarity when the circuit is active.

Figure 9: Speaker circuit test points



Specifications

Operating voltage	
Strobe	16 to 33 VDC, 16 to 33 VFWR
Speaker	25 VRMS, 70 VRMS (field selectable)
Operating current	
16 to 33 VDC	28 mA
16 to 33 VFWR	36 mA
Supervisory voltage	30 V max.
Sound output	See Table 3 and Table 4
Speaker response	400 to 4,000 Hz
Resonant frequency	520 Hz
Strobe flash rate	1 fps (flash per second) approx.
Light output	15, 30, 75, or 110 cd
Light distribution	See Figure 10.
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.
Dimensions	See Figure 11
Center offset	−1.70 in (−4.32 cm)
Compatible electrical boxes [1]	2-gang, 4-inch square, 4-inch octagon with GOCT adapter plate, G4RSB, G4WSB
Wire size	12 to 18 AWG (0.75 to 2.50 mm²)
Screw torque	
Mounting screws	10 lbf-in (1.2 N-m) max.
Terminal screws	12 lbf-in (1.4 N-m) max.

Trim plates	EG4TR, EG4TW
Replacement covers	See Table 5 and Table 6
Operating environment Temperature Relative humidity	 32 to 122°F (0 to 50°C) 0 to 93% noncondensing
Storage temperature	-40 to 158°F (-40 to 70°C)

[1] Minimum box depth: 1.5 in. (3.81 cm)

Table 3: Sound level (dBA) at 3.05 m (10 ft.)

Voltage setting	Wattage setting	Reverberant (UL 1480)	Anechoic (CAN/ULC-S541)
25V / 70V	1/4W	78	78
	1/2W	81	81
	1W	84	84
	2W	87	87

Table 4: Sound pattern (ULC)

Axis	Angle	Change in output
Horizontal	117° and 61°	−3 dBA
	134° and 49°	−6 dBA
Vertical	128° and 68°	−3 dBA
	138° and 52°	−6 dBA

Table 5: EG4S speaker replacement covers

Catalog number	Description
EG4SRF-CVR	Cover, wall speaker, red, FIRE
EG4SRN-CVR	Cover, wall speaker, red, no marking
EG4SWA-CVR	Cover, wall speaker, white, ALERT
EG4SWF-CVR	Cover, wall speaker, white, FIRE
EG4SWN-CVR	Cover, wall speaker, white, no marking

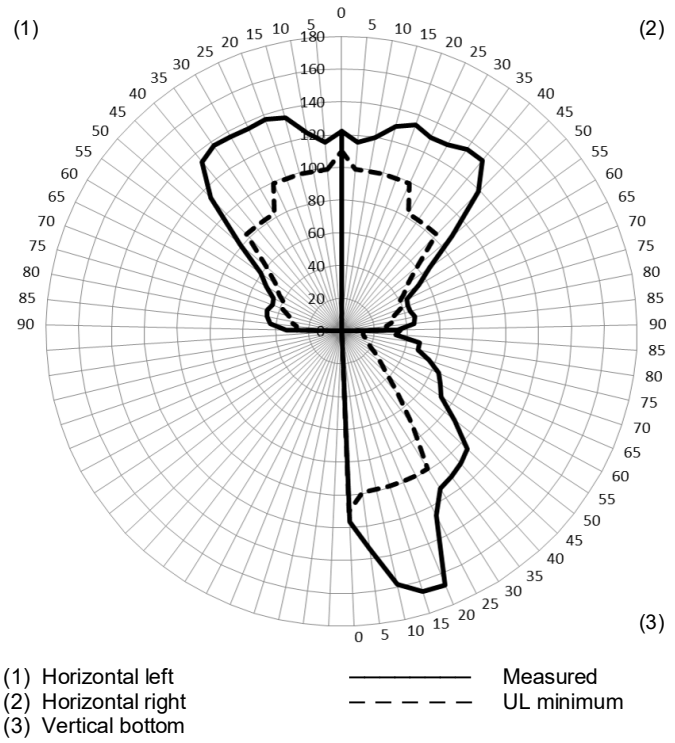
Table 6: EG4SV speaker-strobe replacement covers

Catalog number	Description
EG4SVRF-CVR	Cover, wall speaker-strobe, red, FIRE
EG4SVRN-CVR	Cover, wall speaker-strobe, red, no marking
EG4SVWA-CVR	Cover, wall speaker-strobe, white, ALERT
EG4SVWF-CVR	Cover, wall speaker-strobe, white, FIRE
EG4SVWN-CVR	Cover, wall speaker-strobe, white, no marking

Contact information

For contact information, see www.kidde-esfire.com.

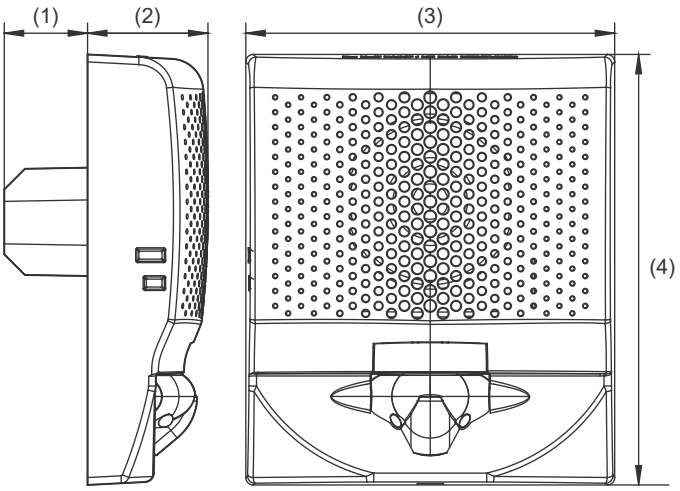
Figure 10: 110 cd light distribution



(1) Horizontal left
(2) Horizontal right
(3) Vertical bottom

Measured
UL minimum

Figure 11: Dimensions



(1) 1.13 in. (2.87 cm)
(2) 1.62 in. (4.11 cm)
(3) 4.95 in. (12.57 cm)
(4) 5.78 in. (14.68 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

P/N 3102667-EN • REV 004 • REB 18NOV25