EDWARDS

LIFE SAFETY & INCIDENT MANAGEMENT

Genesis LED GSE EN54 Series

Strobe Expanders



CE

UK CA

Overview

EDWARDS's Genesis GSE EN54 Strobe Expander adds a synchronized visual alarm device (VAD) to compatible loudspeakers. Genesis LED EN54 strobe expanders may be surface mounted (on wall) or semiflush mounted (in wall).

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

Genesis LED EN54 strobe expanders consist of a wiring plate and preattached conduit adaptor, and a strobe. Loudspeakers are ordered separately.

Standard Features

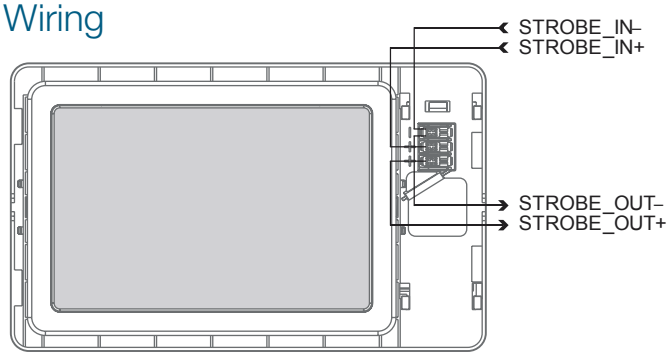
- **Flexible, sleek design**
  Design allows for four different orientations for strobe and a speaker in a single compact footprint
- **Fewer parts to stock**
  Uses standard EST (Series) Speakers
- **Meets EN Standard synchronization requirements**
- **Highly regulated in-rush current**
  Allows the maximum number of strobes on a circuit

DATA SHEET E85001-0702
Not to be used for installation purposes. Issue 1.0

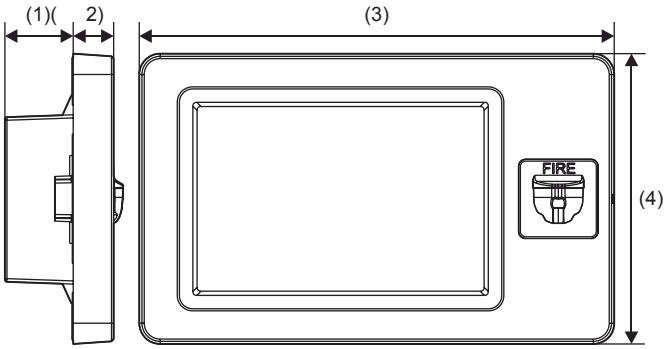
Application

Prevailing codes require strobes to be used where ambient noise conditions exceed specified levels, where occupants use hearing protection, and in areas of public accommodation. Consult your Authority Having Jurisdiction for details.

Wiring

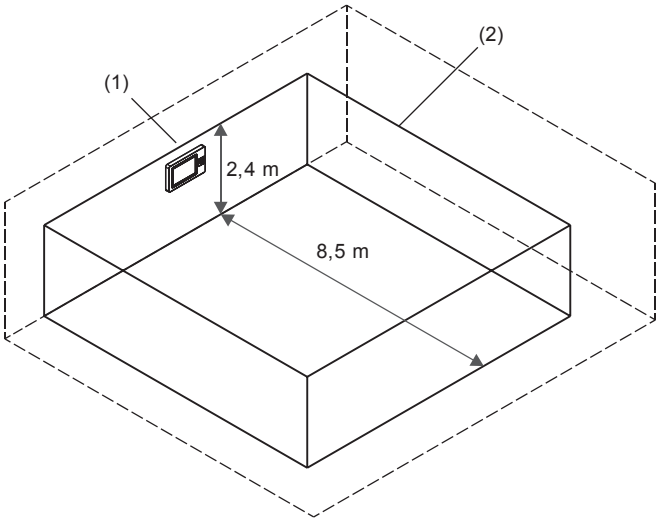


Dimensions



(1) 4.93 cm (1.94 in.)
(2) 2.92 cm (1.15 in.)
(3) 34.16 cm (13.45 in.)
(4) 20.98 cm (8.26 in.)

W–x-y Cuboid Coverage

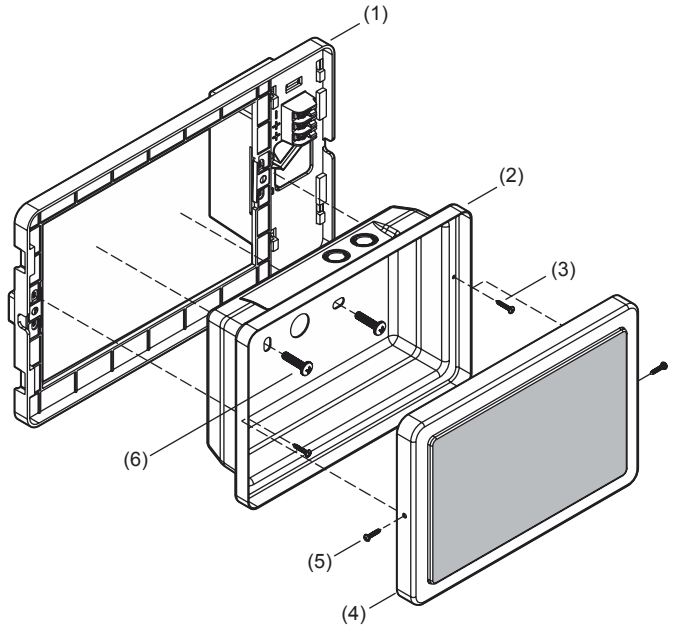


(1) Strobe expander
(2) Beacon coverage cuboid volume

Installation and Mounting

Genesis LED EN54 Expanders are intended for indoor wall mounted applications only. They can be flush mounted or semiflush mounted. Refer to installation sheet for mounting details. As always, check and comply with applicable codes and regulations.

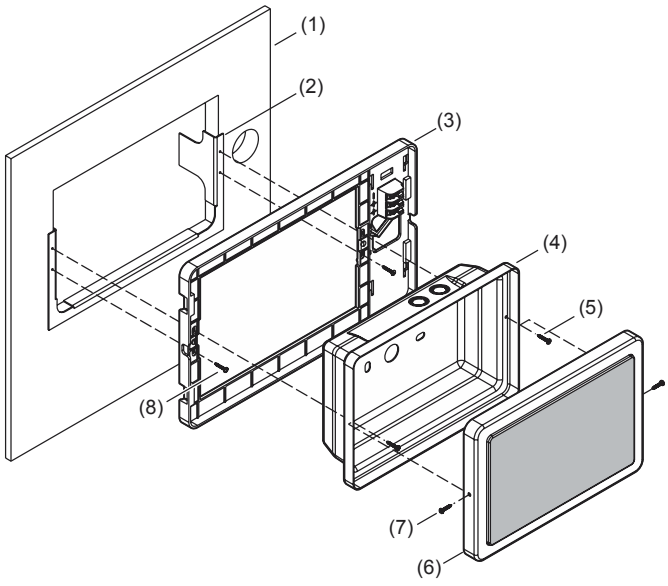
Typical surface mount installation



(1) Wiring plate
(2) Loudspeaker backbox
(3) Backbox screw (2X)
(4) Loudspeaker
(5) Loudspeaker screw (2X)
(6) Wall screw (2X)

Note: If lost, replace backbox screws with M2.9 × 16 sheet metal screws.

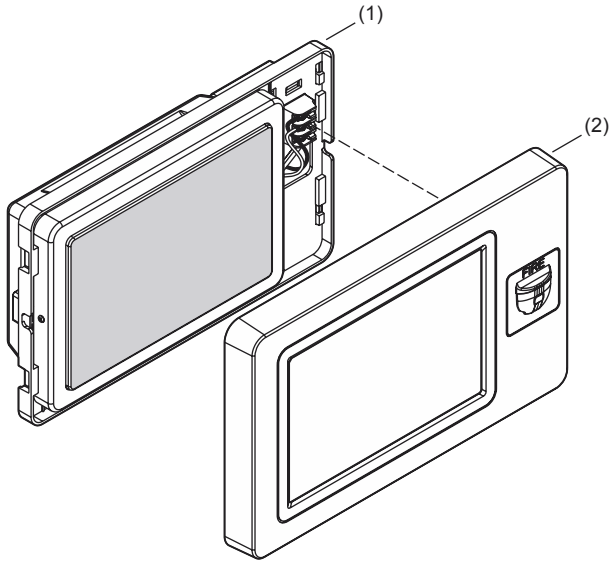
Typical semiflush mount installation



(1) Wall
(2) Drywall frame (ordered separately)
(3) Wiring plate
(4) Loudspeaker backbox
(5) Backbox screw (2X)
(6) Loudspeaker
(7) Loudspeaker screw (2X)
(8) Wiring plate screws (2X)

Note: For in-wall mounting, use a drywall frame (ABT-W6 FRAME) or use a wall box (ABT-W6 BOX), both ordered separately.

Strobe expander installation



(1) Wiring plate
(2) Strobe expander

Specifications

Operating voltage	16 to 33 VDC
Operating current 16 to 33 VDC	24 mA
Light output	W-2.4 - 8.5
W–x-y cuboid coverage	2.4 m × 8.5 m × 8.5 m. See W–x-y Cuboid Coverage, page 2.
Strobe flash rate	1 fps (flash per second) approx.
Light distribution	See W–x-y Cuboid Coverage, page 2.
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	0.75 to 2.50 mm2 (12 to 18 AWG)
Dimensions	See Dimensions, page 2.
Compatible loudspeakers	EST-W6C, EST-W6C_BL
Compatible accessories	
Drywall frame	ABT-W6 FRAME
Wall box	ABT-W6 BOX
Safety steel rope	ABT-W6-KIT/HOOK
Mounting Holes Metal Guide	ABT-W6-TMPL
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)
Housing Color	White (RAL9002)

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

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Models

Number	Description
GSEFT-E	Strobe expander, white, FIRE, vertical, strobe top
GSEFB-E	Strobe expander, white, FIRE, vertical, strobe bottom
GSEFL-E	Strobe expander, white, FIRE, horizontal, strobe left
GSEFR-E	Strobe expander, white, FIRE, horizontal, strobe right
GSENT-E	Strobe expander, white, none, vertical, strobe top
GSENB-E	Strobe expander, white, none, vertical, strobe bottom
GSENL-E	Strobe expander, white, none, horizontal, strobe left
GSENR-E	Strobe expander, white, none, horizontal, strobe right

