GEP / GEPS Series
Colored Lens Expander Plate Strobe

GEP: 12 units per carton, 12 pounds per carton

GEPS Series: 6 units per carton, 9 pounds per carton

Applications

The Gentex GEP and GEPS Series is a wall mount expander plate with a quality colored lens strobe to be used in conjunction with a Gentex speaker or wall mount speaker/strobe allowing the ability to mount multiple strobes on a single electrical box. Applications include emergency communication, severe weather, evacuation, emergency response and many more.

The GEP Series is to be used in flush mount applications and the GEPS Series is to be used in surface mount applications. The GEP and GEPS Series strobes are designed to be used on a 24VDC system and are available in amber, blue, green and red lens colors. The amber lens units are provided with a turn dial for field selectable candela options. The blue, green and red lens units are available in a fixed 15/75 candela option. The strobes can be synchronized by using the Gentex AVSM Control Module, as well as FACP's or power supplies that include the Gentex Synchronization Protocol. All units feature ALERT text on the lens.

The GEP and GEPS Series are constructed of high impact textured plastic. The Series is warranted for 3 years from the date of purchase and are ANSI/UL 1638, CAN/ULC S526 and/or CAN/ULC S541 listed. The amber lens units additionally comply with the light output dispersion requirements of ANSI/UL 1971 for wall mount applications with a measured candela rating that is equal to the candela listed on the product. No derating was required.

Standard Features

- Nominal Voltage 24 VDC
- Amber lens models have field selectable candela options: 15, 30, 60, 75, 110
- Blue, green and red lens models are fixed 15/75 candela
- GEP dimension: 10.8" (27.5 cm) high x 6.6" (16.8 cm) wide x 2.8" (7.15 cm) deep
- GEPS dimension: 11.5" (29.3 cm) high x 7.26" (18.45 cm) wide x 5.04" (12.8 cm) deep
- Lens colors available: amber, blue, green and red
- ALERT text on all units
- Wall mount to a standard 4" (10.16 cm) square x 2.125" (5.4 cm) deep back box
- GEPS can accommodate 1/2 and 3/4 conduit
- Screw terminals, separate in/out wiring (12-18 gauge)
- Use in conjunction with Gentex speaker or wall mount speaker/strobe (SOLD SEPARATELY)
- Wire strip guide
- Synchronize strobe with Gentex AVSM Control Module
- Faceplate available in off-white
- Wall mount

Product Listings

SIGNALING
C (UL) US
LISTED

GENTEX CORP
10985 CHICAGO DR.
ZEELAND, MI 49464

LISTING
STATE OF CALIFORNIA
STATE FIRE MARSHAL
SERVICE

- ANSI/UL 1638 Listed
- CAN/ULC S526 and/or CAN/ULC S541 Listed
- CSFM: 7300-0569:147

Product Compliance

- NFPA 72
- IBC/IFC/IRC
- Quality Management System is certified to: ISO 9001:2008

GENTEX CORPORATION

NEMA Member

Assembled in the USA

GEP Series Flush Mount Expander Plate

Model	Part Number	Lens Color	Voltage (VDC)	Candela(s)
GEPA	904-0510-002	Amber	24	15, 30, 60, 75, 110
GEPB	904-0511-002	Blue	24	Fixed 15/75
GEPG	904-0512-002	Green	24	Fixed 15/75
GEPR	904-0513-002	Red	24	Fixed 15/75

GEPS Series Surface Mount Expander Plate

Model	Part Number	Lens Color	Voltage (VDC)	Candela(s)
GEPAS	904-0514-002	Amber	24	15, 30, 60, 75, 110
GEPBS	904-0515-002	Blue	24	Fixed 15/75
GEPGS	904-0516-002	Green	24	Fixed 15/75
GEPRS	904-0517-002	Red	24	Fixed 15/75

All units white faceplate

All units are include ALERT text

Lens Colors: A = Amber   R = Red   B = Blue   G = Green

GEP / GEPS Amber Lens
Strobe Current Ratings (mA)

Candela	UL Max Operating Current
15	78 mA
30	96 mA
60	137 mA
75	180 mA
110	224 mA

GEP / GEPS Blue, Green and Red Lens
Strobe Current Ratings (mA)

Lens Color	15/75 UL Max Operating Current
Blue	280 mA
Green	360 mA
Red	397 mA

The GEPB, GEPG, GEPR, GEPBS, GEPGS, GEPRS has a fixed candela rating of 15/75 per ANSI/UL 1638.
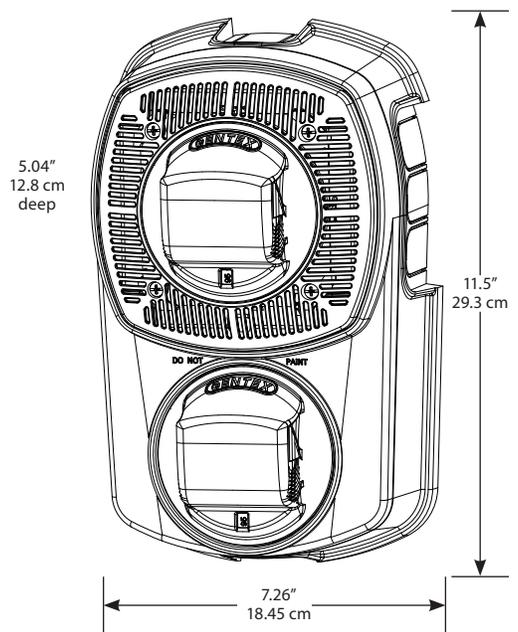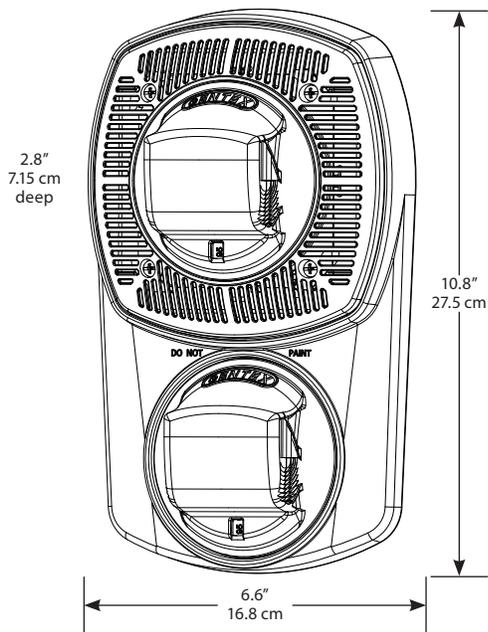
Amber Lens Strobe Candela Ratings

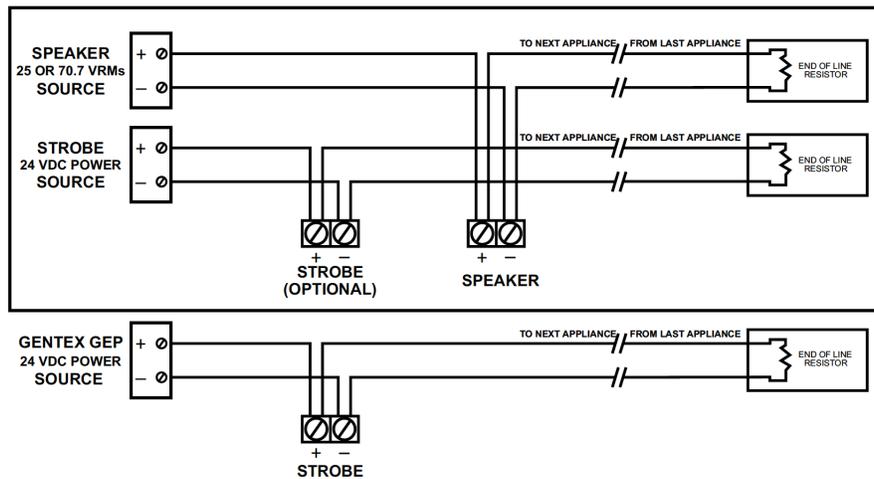| Candela	ANSI/UL 1638 On-Axis Candela Rating, Wall Mount	ANSI/UL 1971 Measured Candela Rating, Wall Mount
15	15	15
30	30	30
60	60	60
75	75	75
110	110	110

NOTICE: *Per NFPA 72, colored strobes are to be listed to ANSI/UL 1638. ANSI/UL 1971 is not applicable to colored lens devices used in emergency communication installations. However, the listed readings were obtained using the light output dispersion measurement requirements under ANSI/UL 1971.*

Notes

- Operating temperature: 32° to 120°F (0° to 49°C)
- The GEP/GEPS Series is not listed for outdoor use
- For nominal and peak current across ANSI/UL regulated voltage range for filtered DC power and unfiltered (FWR [Full Wave Rectified]) power, see installation manual
- This appliance is not recommended for use on coded or pulsing signaling circuits
- The GEP/GEPS Series is not to be used as a visual public mode alarm notification appliance.

2.8"
7.15 cm
deep

10.8"
27.5 cm

DO NOT PAINT

6.6"
16.8 cm

5.04"
12.8 cm
deep

11.5"
29.3 cm

DO NOT PAINT

7.26"
18.45 cm

Wiring Diagram

SPEAKER
25 OR 70.7 VRMs
SOURCE

+ / −

STROBE
24 VDC POWER
SOURCE

+ / −

TO NEXT APPLIANCE / FROM LAST APPLIANCE

END OF LINE RESISTOR

STROBE
(OPTIONAL)
+ −

SPEAKER
+ −

GENTEX GEP
24 VDC POWER
SOURCE

+ / −

TO NEXT APPLIANCE / FROM LAST APPLIANCE

END OF LINE RESISTOR

STROBE
+ −

$$\text{* MAX. WIRE DISTANCE (IN FEET)} = \frac{\text{PANEL VOLTAGE - DEVICE MINIMUM VOLTAGE}}{\text{TOTAL CURRENT DRAW}} \text{ x WIRE CONDUCTIVITY (STROBE ONLY)}$$

NOTICE:
SPEAKER OR SPEAKER/STROBE USED WITH GEP OR GEPS MUST BE ORDERED SEPARATELY.

GEP/GEPS Expander Plate Series
Colored Lens Expander Plate Strobe Series

Architect & Engineering Specifications

The expander plate shall be Gentex GEP or GEPS Colored Lens Expander Plate or approved equivalent and shall be listed by Underwriters Laboratories, Inc. (ANSI/UL) per ANSI/UL 1638 and with CAN/ULC S526 and/or CAN/ULCS541 and the amber lens product shall have compliance with the polar dispersion requirements of ANSI/UL 1971.   The visual signal shall have a minimum 1 Hz flash rate regardless of input voltage. The strobe appliance shall have an operating current of 78 mA or less at 24 VDC for the 15 Cd strobe circuit with an amber lens, 280 mA or less at 24 VDC for the 15/75 Cd strobe circuit with a blue lens, 360 mA or less at 24 VDC for the 15/75 Cd strobe circuit with a green lens and 392 mA or less at 24 VDC for the 15/75 Cd strobe circuit with a red lens. The strobe appliance shall have an input voltage range of 16-33 volts with either direct current or full wave rectified power for 24 volt models. All field wiring connections shall be made via separate in-out terminal connections.   The GEP/GEPS Series shall be mounted on the wall and can be mounted to a standard 4" back box.