

HG/SHG Series 4" Electronic Horns

Section: Audio/Visual Devices

APPLICATIONS

The Gentex HG/SHG Series horns are quality electronic signaling devices that offer you both dependable evacuation signals and visual alarms or a combination of both by simple terminal wiring. The SHG Series can also be wired to have independent operation of both horn and strobes (see **Wiring Diagrams** on page 2). This can be simply done by removing two jumper plugs located on circuit board (see *installation manual for details*).

The HG/SHG Series horns are easily field-changeable — from a steady low-frequency alarm signal to a pulsing low-frequency alarm signal — by simply removing a jumper plug. Changing from a steady tone to a pulsing tone does not prevent reverting back to the original tone at a later date. All units are shipped from the factory in the steady alarm mode.

The HG/SHG Series horns are designed to be used for both new construction or retrofit projects. They easily mount to 4" electrical boxes or 2-gang outlet work boxes (see *back for details*).

SHG devices are UL 464/1971 listed for use with fire protective systems. HG devices are UL 464 listed. HG/SHG devices are warranted for 2 years from the date of purchase.

STANDARD FEATURES

- Low-frequency penetrating output.
- Low current consumption: 17 mA @ nominal voltage (HG124).
- Wide voltage range.
- Screw terminals, separate in/out wiring option for both horn and strobe.
- Steady or pulsing tone.
- Textured finish high-impact plastic faceplate.
- Wide variety of mounting options for new construction and retrofit applications.
- Supplied with beauty plugs to accommodate a variety of installations.
- Strobe maintains constant flash rate (1 per sec.) regardless of input voltage.
- Flush or semi-flush mounting without the need of a trim plate.
- 15/75 & 30/75 candela strobe option (SHG12-1575 and SHG24-1575/3075). Meets ADA 4.28.3 requirements.
- All 110 cd models exceed requirements of ADA 4.28.3.
- UL 464/UL1971 listed for fire protective service/signal for hearing impaired.


LISTED

(except SHG24-60)
S3406
S5405

MEA

412-91-E


 California
State Fire
Marshal

7135-569:115


SHG

HG

ARCHITECTS' & ENGINEERS' SPECIFICATIONS

The alarm signal shall be Gentex model _____ or approved equal and shall be listed by Underwriters' Laboratories for Fire Protective Service for the hearing impaired. The model _____ shall also be listed with the California State Fire Marshal and the Bureau of Standards and Appeals (NYC).

The alarm signals shall produce a sound output of 90 dBA or greater peak as measured in an anechoic chamber.

The alarm signal shall be capable of changing from a steady tone to pulsing without permanent alteration to the unit.

Maximum current consumption at 24 VDC for alarm horn only shall not exceed 17 milliamps and the maximum current consumption for horn/strobe using 15 candela shall not exceed 226 mA @ 12 VDC and 95 mA @ 24 VDC. For those applications requiring the higher candela output strobe with alarm horn, the strobe output shall be 75 candela. The current consumption of the strobe (1575) shall not exceed 93 milliamps @ 24 VDC and 209 mA @ 12 VDC @ 1 Hz, and combined with alarm horn shall not exceed 110 mA @ 24 VDC and 226 mA @ 12 VDC.

The alarm signal shall be provided with screw terminals for in-out field wiring, the strobe shall be capable of operation independently after horn has been silenced.

AVAILABLE MODELS

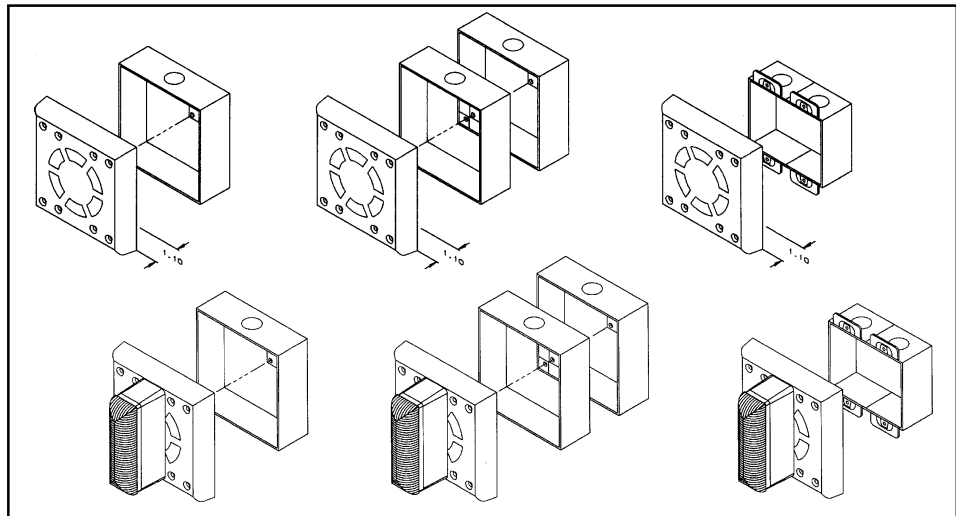
Model Number	Operating Voltage	Flash Rates/Min.	Light Effective Intensity in Candela	Combined Rated Current at Nominal Operating Voltage*	Combined Rated Current at Maximum Operating Voltage*	dB at 10 feet
HG124	10 - 30			17 mA	21 mA	100
SHG12-15-1	10 - 16	60	15	130 mA	102 mA	90
SHG12-1575	10 - 16	60	15 (UL 1971) 75 (UL 1638)	252 mA	173 mA	90
SHG24-15-1	21 - 30	60	15	95 mA	90 mA	95
SHG24-1575-W	21 - 30	60	15 (UL 1971) 75 (UL 1638)	122 mA	108 mA	95
SHG24-3075-W	21 - 30	60	30 (UL 1971) 75 (UL 1638)	159 mA	135 mA	95
SHG24-1575-C	21 - 30	60	15 (UL 1971) 75 (UL 1638)	137 mA	121 mA	95
SHG24-60-W	21 - 30	60	60	137 mA	121 mA	95
SHG24-110-1	21 - 30	60	110	237 mA	200 mA	95

STARTUP & PEAK OPERATING CURRENTS AT 24 VDC: 15 cd units - startup of 114 mA / peak op. of 84 mA. 15/75 cd units - startup of 130 mA (wall), 140 mA (ceiling) / peak op. of 110 mA (wall), 125 mA (ceiling). 30/75 cd units - startup of 120 mA / peak op. of 160 mA. 60 candela units - startup of 140 mA / peak op. of 125 mA. 110 candela units - startup of 148 mA / peak op. of 240 mA. **OPERATING TEMPERATURE:** 32°F - 120°F (0°C - 49°C). **WHEN PLACING AN ORDER:** Add the following to the end of the model number: "W" (WALL mount), "P" (PLAIN, i.e., no lettering), or "C" (CEILING mount). Also add either "R" (RED faceplate) or "W" (WHITE faceplate).

*Currents listed are at optimal power supply voltage. **DO NOT** use these calculations for supply/battery calculations. See *Instruction Manual*.

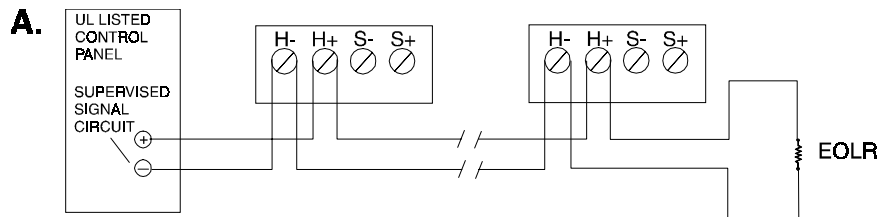
MOUNTING

- 4" square boxes with brackets 2-1/8" deep minimum.
- 4" square metal/nonmetallic switch/outlet boxes 2-1/8" deep minimum.
- Gangable 2-gang switch/masonry outlet boxes 2-1/8" deep minimum.



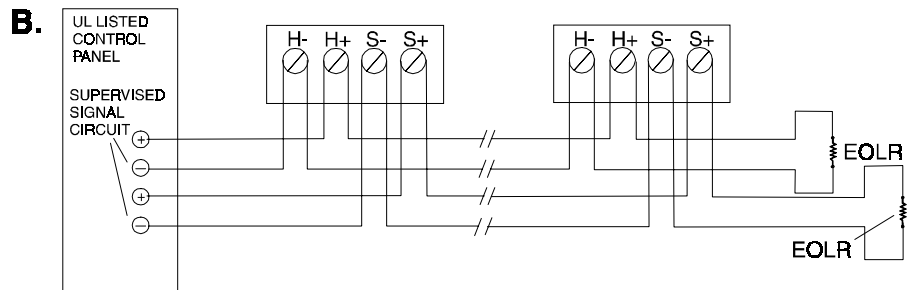
WIRING DIAGRAMS

A. HG Horn and SHG Series powered in parallel.



B. SHG Series with Horn and Strobe powered independently.

NOTE: Remove circuit cover housing and remove jumpers 1 and 2. Replace cover and proceed to wire horn into circuit.



NOTE: Power is supplied to devices when control panel is latched.