

WGE Weatherproof Strobes and Horn Strobes

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Invented for life



- ▶ Wide voltage range, 16 to 33 VDC or FWR
- ▶ 75 cd strobe meets ADA 4.28.3 requirements
- ▶ Listed for outdoor use when used with the GOE outdoor enclosure
- ▶ Jumper selection for high or low frequency and for temporal Code 3 or continuous tone patterns
- ▶ Separate horn and strobe functions; silences horn while strobes remain flashing

The Gentex WGE family of weatherproof strobes and horn strobes offer dependable visible and audible alarms. The horns have a synchronizable (using the AVSM Synchronization Module) chime and whoop tones. You can select high or low volume and choose a 2400 Hz (remote signaling) tone or a low frequency (1500 Hz to 3000 Hz) mechanical sounding tone where doors could prevent hearing the other tone. They are easily field-changeable from temporal Code 3 to a continuous tone. They are shipped from the factory on the temporal lower frequency mode, and come standard with a rugged die-cast metal mounting plate. The strobes have a low operating current and a minimum flash rate of 1 Hz regardless of the input voltage.

These devices are equipped with the SuperSlide feature to test supervision and the Instant Voltage Verification feature for measuring voltage drop draw. The GOE Outdoor Enclosure is included with each unit. The unit and GOE enclosure must be used together to meet the UL outdoor listing.

Certifications and approvals

Gentex Corporation holds these Listings and Approvals:

Region	Certification
USA	UL ULSZ: Audible-signal Appliances (ANSI/UL 464), ULSZ7: Audible-signal Appliances Certified for Canada (CAN/ULC-S525), UVAV: Visual-signal Appliances for Fire-protective Signaling Systems (ANSI/UL 1638), and UEES7: Visual-signal Appliances Certified for Canada [CAN/ULC-S526 (1987)]
	CSFM see our website

Installation/configuration notes

Compatible Products

The following products are compatible with these strobes and horn strobes:

Control Panels:

Active¹: FPA-1000 family and FPD-7024 family

Legacy¹: D10024A, D9412, D8024, D7024², and D7022³

Synchronization Modules:

AVSM-R and AVSM-W

¹ For synchronization, use the AVSM-R or AVSM-W Synchronization Modules with these control panels.

² When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable fire alarm control panel (FACP).

³ The D7022 must be set for 24 VDC operation and requires the AVSM-R or AVSM-W Synchronization Modules for synchronization.

Mounting Considerations

For an outdoor application or a severe environment (NEMA 3R) application, the WGES Strobes and WGE Horn Strobes must be surface mounted on a flat wall in a GOE Outdoor Enclosure. The enclosure is supplied. Knockout holes are sized for 3/4-inch conduit and matching connector. Use a watertight conduit fitting.

Wiring



Notice

Do not use these units in coded or pulsed signaling circuits.

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm² and 4 mm²).

Parts included

Quant.	Component
1	Strobe or horn strobe with finish plate
1	Die-cast mounting plate
1	GOE outdoor enclosure
1	Plastic test card
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Strobe Current (maximum)	180 mA RMS; 245 mA FWR
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Voltage (Input):

• nominal	24 VDC or FWR
• range	16 VDC or FWR to 33 VDC or FWR

Environmental

Temperature (Operating):

• Indoor	+32°F to +120°F (0°C to +49°C)
• Outdoor	-31°F to +150°F (-35°C to +66°C)

Mechanical

Candela Rating	75 cd
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Dimensions (HxWxD):

• without GOE enclosure	5 in. x 4.5 in. x 2.5 in. (12.7 cm x 11.4 cm x 6.4 cm)
• with GOE enclosure	5.75 in. x 4.75 in. x 4.2 in. (14.6 cm x 12.1 cm x 10.6 cm)

Alarm Ratings



Notice

The sound output for the temporal (Code 3) tone is rated lower because the time the horn is off is averaged into the sound output rating. When the horn is producing a tone in the temporal mode its sound pressure is the same as the continuous mode.

Horn (Continuous, 2400 Hz)	
Audible Device Current (maximum)	28 mA RMS; 48 mA FWR
Sound output at 10 ft (3 m) at 24 VDC	High output: 86 dBA; Low output: 78 dBA

Horn (Continuous, Mechanical)	
Audible Device Current (maximum)	25 mA RMS; 44 mA FWR
Sound output at 10 ft (3 m) at 24 VDC	High output: 84 dBA; Low output: 76 dBA

Horn (Temporal Code 3, 2400 Hz)	
Audible Device Current (maximum)	28 mA RMS; 48 mA FWR
Sound output at 10 ft (3 m) at 24 VDC	High output: 83 dBA; Low output: 75 dBA

Horn (Temporal Code 3, Mechanical)	
Audible Device Current (maximum)	25 mA RMS; 44 mA FWR
Sound output at 10 ft (3 m) at 24 VDC	High output: 81 dBA; Low output: 73 dBA*

* If you operate the horn in this mode at this voltage, it does not meet the UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high output setting for public mode application.

Chime (Continuous)

Audible Device Current (maximum)	15 mA RMS; 30 mA FWR
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Sound output at 10 ft (3 m) at 24 VDC	High output: 71 dBA*; Low output: 68 dBA*
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* If you operate the horn in this mode at this voltage, it does not meet the UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high output setting for public mode application.

Chime (Temporal Code 3)

Audible Device Current (maximum)	15 mA RMS; 30 mA FWR
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Sound output at 10 ft (3 m) at 24 VDC	High output: 71 dBA*; Low output: 68 dBA*
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* If you operate the horn in this mode at this voltage, it does not meet the UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high output setting for public mode application.

Whoop

Audible Device Current (maximum)	56 mA RMS; 62 mA FWR
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Sound output at 10 ft (3 m) at 24 VDC	High output: 83 dBA; Low output: 72 dBA
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Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information**WGEC24-75WR Weatherproof Horn Strobe (red)**

Red, 24 VDC weatherproof device with 75 cd strobe and field-selectable for high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern

Order number **WGEC24-75WR**

WGEC24-75WW Weatherproof Horn Strobe (off-white)

White, 24 VDC weatherproof device with 75 cd strobe and field-selectable for high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern

Order number **WGEC24-75WW**

WGES24-75WR Weatherproof Strobe (red)

Red, 24 VDC weatherproof 75 cd strobe

Order number **WGES24-75WR**

WGES24-75WW Weatherproof Strobe (off-white)

White, 24 VDC weatherproof 75 cd strobe

Order number **WGES24-75WW**

Accessories**AVSM-R Synchronization Control Module (red)**

Synchronization module for use with all Gentex synchronizable notification appliances except the HS24 Series and the ST24 Series.

Not Available.

Order number **AVSM-R**

AVSM-W Synchronization Control Module (white)

Synchronization module for use with all Gentex synchronizable notification appliances except the HS24 Series and the ST24 Series.

Not Available.

Order number **AVSM-W**

GOE-R Outdoor Enclosure (red)

The Gentex GOE-R Outdoor Enclosure is ANSI/UL 464 listed for use in indoor and outdoor applications when used with the Gentex GEH Series horn and WGE Series strobe and horn/strobe. It is red.

Not Available.

Order number **GOE-R**

GOE-W Outdoor Enclosure (white)

The Gentex GOE-W Outdoor Enclosure is ANSI/UL 464 listed for use in indoor and outdoor applications when used with the Gentex GEH Series horn and WGE Series strobe and horn/strobe. It is off-white.

Not Available.

Order number **GOE-W**

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