

GE3-24 24 V Strobes and Horn Strobes

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Invented for life



- ▶ Silence the horn while strobes flash
- ▶ Use the SuperSlide feature for easy testing
- ▶ Wide voltage range; 16 to 33 VDC or FWR
- ▶ Many candela choices
- ▶ Select high or low frequency, high or low volume, and temporal Code 3 or continuous tone pattern

The Gentex Commander³ 24 V Low-frequency Strobes (GES3-24) and Horn Strobe (GEC3-24) combinations offer dependable alarms, a low current draw, and a minimum flash rate of 1 Hz regardless of input voltage.

Functions

Easy Installation and Testing

The user can wire then install the entire system, reducing installation and operating costs. Use the SuperSlide feature to test supervision.

Horn Output

The horns provide a selection of high or low dBA. They produce a peak sound of 100 dBA or greater at 10 ft (3 m).

The horn offers a choice between a 2400 Hz (remote signaling) tone or a low frequency mechanical sounding (evacuation) tone where closed doors could prevent hearing the other tone. The user can also select either continuous or temporal Code 3 tone output, and synchronize the temporal signal by using an AVS Series Synchronization Module.

Strobe Output

Select from 15 cd, 30 cd, 60 cd, 75 cd, or 110 cd while in the field using a sliding switch. The horn strobe appliance with the AVS44, AVSM, or a compatible

control panel can silence the audible signal while leaving the visible signal energized with the use of a single pair of power wires.

Certifications and approvals

Gentex Corporation holds these Listings and Approvals:

Region	Certification	
USA	UL	ULSZ: Audible Signal Appliances (UL464), ULSZ7: Audible Signal Appliances Certified for Canada (cULus) GEC3-24 models
	UL	GES3-24 models: UUKC: Signaling Appliances and Equipment for the Hearing Impaired (UL1971), UVAV7: Visual Signaling Appliances for Fire Protective Signaling Systems Certified for Canada (cUL)
	FM	
	CSFM	see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the GEC3-24 Horn Strobes and GES3-24 Strobes:

Category	Product ID	Product Description
Control Panels	D7022 ¹	Conventional FACP
	D7024 ²	Addressable FACP
	D7024	Conventional FACP
	D8024 ³	Analog FACP
	D9124 ³	Addressable FACP
	D10024A ³	Analog FACP
	FPD-7024 ²	Addressable FACP
Modules	FPD-7024	Conventional FACP
	AVS-44	Synchronization module (red)
	AVS44-W	Synchronization module (white)
	AVSM-R	Synchronization module (red)
	AVSM-W	Synchronization module (white)

¹ The D7022 must be set for 24 VDC operation and requires the AVS44 or AVSM Synchronization Modules for synchronization.

² When used with a D7039 Multiplex Expansion Module, the FPD-7024 and D7024 become addressable FACP's.

³ For synchronization, use the AVS44 or AVSM Synchronization Modules with these control panels.

Mounting Considerations

i Notice
Use the GE3-24 horns and horn strobes for indoor installations only.

These strobes and horn strobe combinations are equipped with a four-inch square metal mounting plate that can be attached as follows:

	Conduit Applications	Surface Mounted	Semi-flush Mounted
Single-gang	•		•
Double-gang	•	•	•
Four-inch square	•	•	•
GSB	•	•	

Also included is a locking mechanism that secures the product to the bracket without any screws showing.

Shipping Information

The GEC3-24 horn strobe models are delivered from the factory set to the temporal lower frequency mode.

Wiring

i 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	Plastic test card
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Strobe Current (maximum):	15 cd: 78 mA RMS; 113 mA FWR 30 cd: 96 mA RMS; 135 mA FWR 60 cd: 137 mA RMS; 186 mA FWR 75 cd: 180 mA RMS; 245 mA FWR 110 cd: 224 mA RMS; 313 mA FWR
Voltage Range:	16 to 33 VDC or FWR
Voltage (Input):	12 VDC or FWR nominal

Environmental

Relative Humidity	Up to 93% non-condensing
Temperature (Operating):	+32°F to +120°F (0°C to +49°C)

Mechanical

Dimensions (HxWxD):	5.0 in. x 4.5 in. x 2.5 in. (12.7 cm x 11.4 cm x 6.4 cm)
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Alarm Ratings

Horn (Continuous, 2400 Hz)

Audible Device Current (maximum):	28 mA RMS; 48 mA FWR
Sound output (maximum range) at 10 ft (3 m):	High output: 86 dBA Low output: 78 dBA

Horn (Continuous, Mechanical)

Audible Device Current (maximum):	25 mA RMS; 44 mA FWR
Sound output (maximum range) at 10 ft (3 m):	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 (maximum range) at 10 ft (3 m):	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 (maximum range) at 10 ft (3 m):	High output: 81 dBA Low output: 73 dBA*
Chime (Continuous)	
Audible Device Current (maximum):	15 mA RMS; 30 mA FWR
Sound output (maximum range) at 10 ft (3 m):	High output: 71 dBA* Low output: 68 dBA*
Chime (Temporal Code 3)	
Audible Device Current (maximum):	15 mA RMS; 30 mA FWR
Sound output (maximum range) at 10 ft (3 m):	High output: 71 dBA* Low output: 68 dBA*
Whoop	
Audible Device Current (maximum):	56 mA RMS; 62 mA FWR
Sound output (maximum range) at 10 ft (3 m):	High output: 83 dBA Low output: 72 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.



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.

Trademarks

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

Ordering information

GE3-24WR 24 VDC/FWR Horn Strobe Unit

Red, 24 VDC horn strobe with field-selectable intensities of 15 cd, 30 cd, 60 cd, 75 cd, or 110 cd, high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern.
Order number **GE3-24WR**

GE3-24WW 24 VDC/FWR Horn Strobe Unit

White, 24 VDC horn strobe with field-selectable intensities of 15 cd, 30 cd, 60 cd, 75 cd, or 110 cd, high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern.
Order number **GE3-24WW**

GES3-24WR 24 VDC/FWR Strobe Unit

Red, 24 VDC strobe with field-selectable intensities of 15 cd, 30 cd, 60 cd, 75 cd, or 110 cd.
Order number **GES3-24WR**

GES3-24WW 24 VDC/FWR Strobe Unit

White, 24 VDC strobe with field-selectable intensities of 15 cd, 30 cd, 60 cd, 75 cd, or 110 cd.
Order number **GES3-24WW**

Accessories

AVS-44 Synchronization Control Module (red)

Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

Not Available.

Order number **AVS-44**

AVS44-W Synchronization Control Module (white)

Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

Not Available.

Order number **AVS44-W**

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**

GSB Surface Back Box (red)

5.6 in. x 4.6 in. x 1.5 in. (14.1 cm x 11.6 cm x 3.7 cm)
Order number **GSB**

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