GE3-12WR 12 V Strobe and Horn Strobe

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BOSCH
Invented for life

- Silence the horn while strobes flash
- Use the SuperSlide™ feature for easy testing
- Wide voltage range; 8 VDC to 17.5 VDC
- Four candela choices: 15, 30, 60, or 75 cd
- Select high or low frequency, high or low volume, and temporal Code 3 or continuous tone pattern

The Gentex low-profile strobe (GES3-12WR) and horn strobe (GEC3-12WR) offer dependable alarms, a low current draw, an 8 VDC to 17.5 VDC voltage range, 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 volume. The user can also select either Continuous or Temporal (Code 3) tone output, and synchronize the temporal signals by using the AVS Series Synchronization Modules.

Strobe Output
Select from 15 cd, 30 cd, 60 cd, or 75 cd while in the field using a sliding switch. The horn strobe appliance, with the AVS-44, 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 (ANSI/UL 464) GEC3-12_Series
	UL	UUKC: Signaling Appliances and Equipment for the Hearing Impaired (ANSI/UL 1971) GES3-12_Series
	FM	GE3_Series
	CSFM	see our website

Installation/configuration notes

Compatible Products
The following products are compatible with the GE3-12 Family 12 V Strobe and Horn Strobe:

Control Panels:

Compatible with all Bosch G Series, B Series, 6000 Series, 2000 Series, DS7400Xi and DS7400XiV4, DS7080iP-32, DS7200 Series, and DS7060 Series Control Panels[1]

D7022[2] Conventional FACP

FPD-7024[3] Addressable and Conventional FACPs
Synchronization Modules:
AVS-44, AWS-44W, AVSM-R, and AVSM-W
[1] For synchronization, use the AVS44 or AVSM Synchronization Modules with these control panels.
[2] The D7022 must be set for 12 VDC operation and requires the AVS44 or AVSM Synchronization Modules for synchronization.
[3] The FPD-7024 is not UL 864 9th edition approved for use with the Gentex synch protocol.

Mounting Considerations

Notice
Use the strobes and horn strobes for indoor installations only.

These strobes and horn strobes 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 horn strobe models are delivered from the factory set to the temporal lower frequency mode.

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 mm^2 and 4 mm^2).

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

Input voltage	12 VDC or FWR nominal
Voltage range	8 to 17.5 VDC or FWR
Strobe current ratings:	
• 15 cd	163 mA RMS
• 30 cd	212 mA RMS
• 60 cd	331 mA RMS
• 75 cd	436 mA RMS

Environmental

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

Mechanical

Dimensions (H x W x D)	5.0 in. x 4.5 in. x 2.5 in. (12.7 cm x 11.4 cm x 6.4 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)	29 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	79 dBA to 84 dBA

Horn (Continuous, Mechanical)	
Audible Device Current (maximum)	26 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	79 dBA to 83 dBA

Horn (Temporal Code 3, 2400 Hz)	
Audible Device Current (maximum)	29 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	76 dBA to 81 dBA

Horn (Temporal Code 3, Mechanical)	
Audible Device Current (maximum)	26 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	75 dBA to 80 dBA

Chime (Continuous)	
Audible Device Current (maximum)	13 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	64 dBA* to 65 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 (Temporal Code 3)	
Audible Device Current (maximum)	13 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	63 dBA* to 64 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.

Whoop	
Audible Device Current (maximum)	55 mA RMS
Sound Output (maximum range) at 10 ft (3 m)	77 dBA to 83 dBA

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

Ordering information

GEC3-12WR 12 VDC Horn Strobe Unit
These red, 12 VDC horn/strobes have field-selectable strobe intensities of 15 cd, 30 cd, 60 cd, or 75 cd, and horns with high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern.
Order number **GEC3-12WR**

GES3-12WR 12 VDC Strobe Unit
These red, 12 VDC strobe units have field-selectable intensities of 15 cd, 30 cd, 60 cd, or 75 cd.
Order number **GES3-12WR**

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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