BOSCH

Invented for life

GEC Series Low-frequency Horn Strobes

▸ **Silence the horn while strobes flash**

▸ **Evacuation tone**

▸ **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**

▸ **Rugged die-cast metal mounting plate**

The Gentex Commander[2] (GEC) Series Low-frequency Horn Strobe combinations offer dependable audible and visual 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 GEC series 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 signals by using an AVS Series Synchronization Module.

Strobe Output

The signaling 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 (UL464), ULSZ7: Audible Signal Appliances Certified for Canada (cULus)
	FM	
	CSFM	7135-0569: 122
	CBFP	City of Chicago Bureau of Fire Protection
	NYC/MEA	285-91-E: Vol. XV
	ADA	Complies with Americans with Disabilities Act ADA 4.28.3
	NFP	Complies with National Fire Protection Association NFPA 72

Installation/Configuration Notes

Compatible Products

The following products are compatible with the GEC Series Horn 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
Modules	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 D7024 becomes an addressable FACP.

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

Mounting Considerations

The GEC series is easy to install with the GSB Surface Back Box.

Indoor Applications

Note   Use the GEC series for indoor installations only.

These 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	•	•	

Shipping Information

The GEC models are delivered from the factory set to the temporal lower frequency mode. Also included is a locking mechanism that secures the product to the bracket without any screws showing.

Wiring

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

The input terminals accept wires with diameters between 18 AWG (1.2 mm) and 12 AWG (2.3 mm).

Parts Included

Quant.	Component
1	Horn strobe with finish plate
1	Die-cast mounting plate
1	Plastic test card
1	Hardware pack
1	Literature pack

Technical Specifications

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.

Note   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.

Environmental Considerations

Relative Humidity	Up to 93% non-condensing
Temperature (Operating):	+32ºF to +120ºF (0ºC to +49ºC)

Mechanical Properties

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

Power Requirements

Voltage (Input):	24 VDC or VFWR nominal
Voltage Range:	16 to 33 VDC or FWR

Strobe Current (maximum):

15 cd:	**78 mA RMS; 113 mA FWR**
15/75 cd:	96 mA RMS; 135 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

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SuperSlide is a trademark of the Gentex Corporation, USA.

Ordering Information

GEC24-15WR 15 cd Horn Strobe (red)
Red, 24 VDC device with 15 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-15WR**

GEC24-15WW 15 cd Horn Strobe (white)
White, 24 VDC device with 15 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-15WW**

GEC24-15/75WR 15/75 cd Horn Strobe (red)
Red, 24 VDC device with 15/75 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-15/75WR**

GEC24-15/75WW 15/75 cd Horn Strobe (white)
White, 24 VDC device with 15/75 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-15/75WW**

GEC24-30WR 30 cd Horn Strobe (red)
Red, 24 VDC device with 30 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-30WR**

GEC24-30WW 30 cd Horn Strobe (white)
White, 24 VDC device with 30 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-30WW**

GEC24-60WR 60 cd Horn Strobe (red)
Red, 24 VDC device with 60 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-60WR**

GEC24-60WW 60 cd Horn Strobe (white)
White, 24 VDC device with 60 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-60WW**

GEC24-75WR 75 cd Horn Strobe (red)
Red, 24 VDC device with 75 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-75WR**

GEC24-75WW 75 cd Horn Strobe (white)
White, 24 VDC device with 75 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-75WW**

GEC24-110WR 110 cd Horn Strobe (red)
Red, 24 VDC device with 110 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern — **GEC24-110WR**

Ordering Information

GEC24-110WW 110 cd Horn Strobe (white)
White, 24 VDC device with 110 cd strobe and with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern

GEC24-110WW

Accessories

AVS-44 Synchronization Control Module (red)
Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

AVS-44

AVS44-W Synchronization Control Module (white)
Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

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.

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.

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)

GSB