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Bosch GEC24-15/75WR: Data Sheet

Manufacturer: Bosch Security
Product Type: Ceiling Horn/strobe
Manufacturer Part Number: GEC24-15/75WR

General Information

- UNSPSC: 16191501
- Harmonization Code: 8531100025
- Country of Origin: PT
- Type: Horn
- Type: Indoor
- Siren Types: Sirens, Strobes

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GEC24-15/75WR 15/75 cd Horn Strobe (red)

www.boschsecurity.com

BOSCH
Invented for life



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

The Gentex GEC24-15/75WR Low-frequency Horn Strobe (red) offers 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). They offer 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 (ANSI/UL 464) and UUKC: Signaling Appliances and Equipment for the Hearing Impaired (ANSI/UL 1971)
	FM	
	CSFM	see our website

Installation/configuration notes

Compatible Products
The following products are compatible with the horn strobe:

Control Panels:
Compatible with the FPA-1000 Family, FPD-7024 Family, D7024 family, D10024A[1], D9124[1], D8024[1], D7024[2], and D7022[3] FACPs
Synchronization Modules:
AVS-44 and AVSM-R
[1] For synchronization, use the AVS-44 or AVSM Synchronization Modules with these control panels.
[2] When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable FACP.
[3] The D7022 must be set for 24 VDC operation and requires the AVS-44 or AVSM Synchronization Modules for synchronization.

Mounting Considerations

The horn strobes are easy to install with the GSB Surface Back Box.

Indoor Applications

Notice

Use the horn/strobe for indoor installations only.

These 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	•	•	

Shipping Information

The horn strobes 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

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	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	24 VDC or VFWR nominal
Voltage range	16 to 33 VDC or FWR
Strobe Current (maximum)	96 mA RMS; 135 mA FWR

Environmental

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

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 (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*

* 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
Sound output (maximum range) at 10 ft (3 m)	High output: 71 dBA*; Low output: 68 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)	15 mA RMS; 30 mA FWR
Sound output (maximum range) at 10 ft (3 m)	High output: 71 dBA*; Low output: 68 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)	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.

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

Ordering information

GEC24-15/75WR 15/75 cd Horn Strobe (red)
This red, 24 VDC horn/strobe features a 15/75 cd strobe, a 16 to 33 VDC or FWR voltage range, and a horn with field-selectable high or low frequency, high or low volume, and temporal (Code 3) or continuous tone pattern. It has the Gentex SuperSlide feature for testing supervision.
Order number **GEC24-15/75WR**

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**

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**

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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