



# WS & WHS Series

Weatherproof Commander Series Evacuation Signals

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## Description

The Weatherproof Commander Series offers dependable visible and/or audible alarms for all weatherproof needs.

Included with the series is the weatherproof enclosure. The enclosure is made of high quality Lexan material, providing protection from weather related conditions and allowing the necessary full candela output. This highly constructed enclosure meets various installation requirements including deterring moisture from entering the enclosures.

The Weatherproof Series is equipped with the 4" mounting plate which incorporates the Super-Slide™ feature that allows the installer to easily test for supervision. The product also features a locking mechanism which secures the product to the bracket without any screws showing.

The WGE Series also features the Checkmate™ - Instant Voltage

Verification feature which allows the installer to check the voltage without removing the signal.

The WGE Series strobe has a minimal operation current and has a minimum flash rate of 1Hz and can vary up to 2 Hz regardless of input voltage.

The WGE Series appliances are UL 464 and UL 1638 listed for use with fire protective systems and are warranted for three years from date of purchase.

## Features

- Nominal Voltage 24 VDC
- Unit is Shipped with UL 1638 listed WS24-75 Candela Strobe or WHS24-75 Candela Horn/Strobe
- Unit Dimensions: GOE 5.75" High x 4.75" Wide x 4.18" Deep  
 GOELP 5.75" High x 4.75" Wide x 3.25" Deep
- To Obtain Weatherproof Horn, Must Order GEH24 and GOE/GOELP Separately

- Super-Slide™ - Ease of Supervision Testing



Checkmate™ - Instant Voltage Verification

- Lower Installation and Operating Costs
- Switch Selection for High dBA
- Switch for Mechanical and 2400 Hz Tone
- Switch for Continuous Tone
- Tamperproof Re-entrant Grill
- Wide Voltage Range 16-33 VDC or FWR
- Separate Horn and Strobe Functions
- Synchronize Strobe and/or Horn by Using Gentex Synchronized Control Module
- Listed for UL 1638 when used with the GOE or GOELP enclosure

## Ordering Information

Model Number	Part Number	Description
WS2475R	360-6600R	Weatherproof Strobe in Red
WS2475W	360-6600W	Weatherproof Strobe in White
WHS2475R	360-6100R	Weatherproof Horn/Strobe in Red
WHS2475W	360-6100W	Weatherproof Horn/Strobe in White



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- GOE/GOELP Mode of Clear Lexan® - Provides Maximum Visibility and Reliability for effective Signaling - Allowing Full 75cd Output
- Input Terminals 12 to 18 AWG
- Faceplate Available in Red or Off-White

## Evacuation Horn

Nominal Voltage	Reverberant dBA@ 10 ft. Per UL 4641	In Anechoic Room dBA @ 10 ft.
24 VDC	70-82	100
24 VDC	70-82	100

GOELP separately when using the GEH24 in an outdoor applica

## WS 24 Volt Low Profile Evacuation Weatherproof Strobe

Model Number	Part Number	Nominal Voltage	Candela (UL 1638)
WS2475R	360-6600R	24 VDC	75
WS2475W	360-6600W	24 VDC	75

### Model designations:

"W" = Wall Mount  
 "R" = Red Faceplate  
 "W" = Off-White Faceplate  
 "P" = Plain (no Lettering)  
 Plain units are non-returnable.

## WHS 24 Volt Low Profile Evacuation Weatherproof Horn/Strobe

Model Number	Part Number	Nominal Voltage	Candela (UL 1638)	Reverberant dBA@ 10 ft. Per	In Anechoic Room dBA @ 10
WHS2475R	360-6100R	24 VDC	75	70-82	100
WHS2475W	360-6100W	24 VDC	75	70-82	100

### Notes:

- The WGE Series is listed for outdoor use. Indoor Operating Temperature: 32° to 120°F (0° to 49°C). Outdoor Operating Temperature" -31° to 150°F (-35° to 66°C).
- For nominal and peak current across UL regulated voltage range for filtered DC power and unfiltered (FWR [Full Wave Rectified]) power, see installation manual. 12 volt models are DC only.
- Gentex does not recommend using a coded or pulsing signaling circuit with any of our strobe products.



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WS Series Product Strobe Current Ratings	
Candela	75cd
24 VDC	112mA
UL Max2	180mA

### WS Series Product Strobe Current Ratings

Horn Mode	Minimum dBA @ 10 ft. per UL (HIGH)	Minimum dBA @ 10 ft. Per UL 464 (LOW)	Regulated 24 VDC Max. Operating @ High Setting
Temp 3 2400 Hz	78	71*	28
Temp 3 Mechanical	76	70*	25
Temp 3 Chime	70*	66*	15
Continuous 2400 Hz	81	74*	28
Continuous Mechanical	80	72*	25
Continuous Chime	70*	66*	15
Whoop	82	69*	56

Operating the horn in this mode at this voltage will result in not meeting the minimum 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 dBA setting for public mode application (not applicable when using the chime tone. The chime tone is always private mode).  
**Notes:** The sound output for the temporal 3 tone is rated lower since the time the horn is off is averaged into the sound output rating. While the horn is producing a tone in the temporal 3 mode it's sound pressure is the same as the continuous mode.

To obtain the horn/strobe current draw, add the strobe current draw and the horns current draw.

\* The listed reverberant dBA are for the Continuous Tone mode. The Temporal 3 Tone has a reverberant dBA @ 10 ft. per UL 464 is 77-83 with a horn current draw of 34mA.

† RMS current ratings are per UL average RMS method. UL max. Current rating is the maximum RMS current within the listed voltage range (16-33 VDC for 24 VDC units) (8-17 VDC for 12 VDC units). For strobes the UL max. current is usually at the minimum listed voltage (16 VDC for 24 VDC units) (8 VDC for 12 VDC units). For audibles the max. current is usually at the maximum listed voltage. For unfiltered FWR ratings, see installation manual.

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.