GWS/GWHS Series

Outdoor Ceiling/Wall Mount Selectable Candela Evacuation Signals

24VDC Commander 5 Strobe and Horn/Strobe

8 Units per carton, 17 pounds per carton

Application

The GWS/GWHS Commander 5 Series is an outdoor universal ceiling and wall mount strobe or horn/strobe combination that offers dependable audible and visual alarms and low current consumption.

The GWS/GWHS offers tamperproof field selectable strobe options of 15, 30, 75, 115, 150, and 177 candela. The GWHS horn/strobe offers continuous or synchable temporal tones for mechanical, 2400Hz and chime as well as a non-synchable continuous whoop tone. All tones are easy for the professional to change in the field by using switches.

Included with the GWS/GWHS Series is the outdoor listed back box and weatherproof cover. Using the weatherproof cover and back box with the GWS/GWHS Series provides protection from weather related conditions and allows the necessary full candela output.

The Commander 5 Series comes standard with the 4" mounting plate which incorporates the popular 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 GWS/GWHS Series also features the patented Checkmate® instant voltage verification feature which allows the installer to check the voltage drop draw and match it to the blueprint.

The GWS/GWHS are ANSI/UL 464, ANSI/UL 1638, CAN/ULC S525 and/or CAN/ULC S526 listed for use with fire protective systems and are warranted for three years from the date of purchase.

Standard Features

- Nominal Voltage 24 VDC
- Tamperproof field selectable candela options of 15, 30, 75, 115, 150 & 177
- GWS/GWHS shipped with outdoor listed backbox and weatherproof cover
- Unit dimensions: 6.76" (17.16 cm) x 6.47" (16.43 cm) x 4.63" (11.76 cm)
- Super-Slide® Bracket, Ease of Supervision Testing
- Checkmate® Instant Voltage Verification
- Prewire entire system, install mounting bracket, then install signals
- Input terminals 12 to 18 AWG
- Horn/strobe switch selection for high or low dBA
- Horn/strobe switch selection for continuous or temporal 2400Hz, mechanical or chime tones
- Horn/strobe switch selection for continuous whoop tone
- Synchronize strobe and/or horn/strobe for all temporal tones using Gentex GTSM Control Module
- Continuous whoop tone cannot be synchronized using Gentex GTSM Control Module
- Temporal 4 tone available when using Gentex GTSM Control Module
- Silence audible while visual appliance will remain flashing with Gentex GTSM Control Module
- Weatherproof cover made of clear Lexan® provides maximum visibility and reliability for effective visible signaling
- Weatherproof enclosure provides an ingress protection rating of 54 (IP54) Category 2
- Available in red or white
- Universal wall/ceiling mount

Product Listings

SIGNALING
c (UL) us
LISTED

GENTEX CORP.
STATE OF CALIFORNIA
SERVICE

- ANSI/UL 464 and ANSI/UL 1638 Listed
- CAN/ULC 525 and CAN/ULC 526 Listed
- CSFM: Listed

Product Compliance

- NFPA 72
- Americans with Disabilities Act (ADA)
- IBC/IFC/IRC
- City & State Ordinances/Laws/Regulations
- Quality Management System is certified to: ISO 9001:2015

NEMA Member

Assembled in the USA

Product Models

GWS 24VDC Outdoor Selectable Candela, Evacuation Strobe

Model	Part Number	Voltage (VDC)	Candela
GWSR	904-1483-002	24	15, 30, 75, 115, 150, 177
GWSW	904-1484-002	24	15, 30, 75, 115, 150, 177
GWSPR	904-1485-002	24	15, 30, 75, 115, 150, 177
GWSPW	904-1486-002	24	15, 30, 75, 115, 150, 177

GWHS 24VDC Outdoor Selectable Candela, Evacuation Horn/Strobe

Model	Part Number	Voltage (VDC)	Candela
GWHSR	904-1487-002	24	15, 30, 75, 115, 150, 177
GWHSW	904-1488-002	24	15, 30, 75, 115, 150, 177
GWHSPR	904-1489-002	24	15, 30, 75, 115, 150, 177
GWHSPW	904-1490-002	24	15, 30, 75, 115, 150, 177

R = Red Faceplate, W = White Faceplate.

All units are available in P = plain (no lettering). Plain units are not returnable.

Alert, Agent, Evac, Fuego, Feu, Alerte bezels available for order.
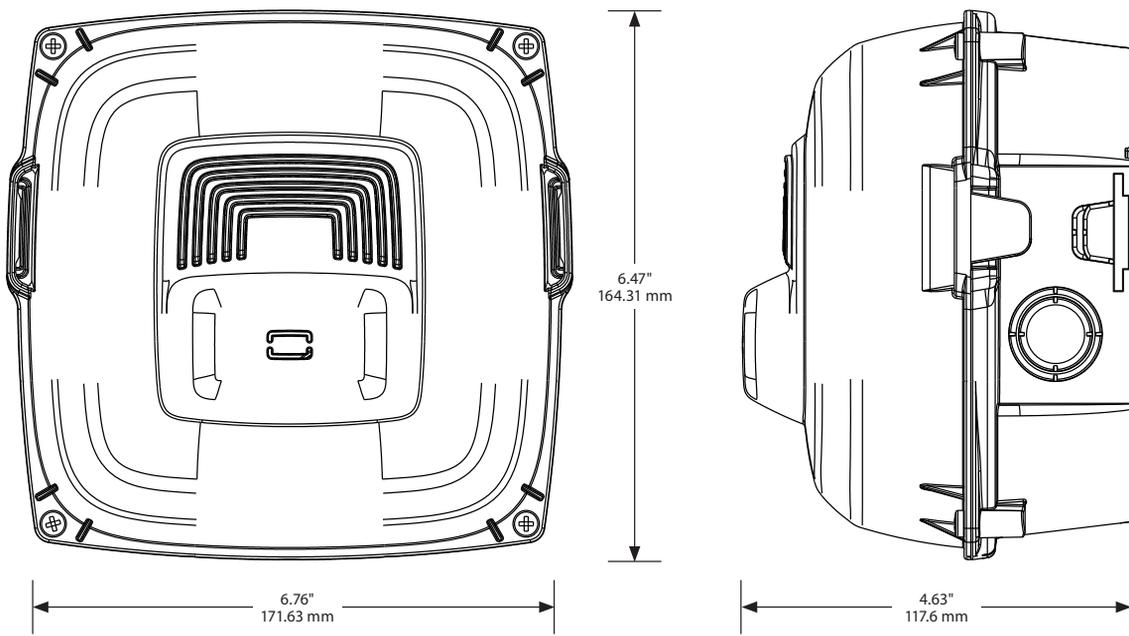
GWS 24VDC Strobe Current Ratings

Candela	Regulated 24VDC Max. Operating Current (mA)	Nominal 24VDC Operating Current (mA)
15	35 mA	28 mA
30	41 mA	34 mA
75	74 mA	55 mA
115	107 mA	76 mA
150	138 mA	98 mA
177	162 mA	117 mA

GWHS 24VDC Horn/Strobe Horn Decibel (dBA) and Current Ratings (mA)

Sound Settings		Current Draw (mA)												Sound Output dBA
Horn Mode	Volume Setting	Regulated 24VDC Max. Operating Current UL Max Over Input Voltage Range of 16-33V						Nominal 24VDC Operating Current						Minimum SPL at 10ft. Per ANSI/UL 464 Reverberant
		15	30	75	115	150	177	15	30	75	115	150	177	16-33VDC
Mechanical - Temporal 3	High	40	44	80	111	143	166	33	33	61	82	104	126	86
Mechanical - Temporal 3	Low	40	43	77	110	141	163	29	29	57	79	100	121	77
Mechanical - Temporal 4	High	40	46	78	111	144	175	30	38	62	85	109	132	86
Mechanical - Temporal 4	Low	38	45	77	111	143	175	29	38	61	85	109	131	77
Mechanical - Continuous	High	42	48	79	113	142	167	39	45	65	86	108	128	86
Mechanical - Continuous	Low	40	43	76	108	139	163	33	39	58	81	102	123	77
2400Hz - Temporal 3	High	40	47	81	116	145	168	34	41	62	84	104	126	88
2400Hz - Temporal 3	Low	40	45	78	112	142	164	30	36	58	80	101	121	78
2400Hz - Temporal 4	High	40	47	79	111	143	175	32	40	63	86	110	132	88
2400Hz - Temporal 4	Low	39	46	78	111	143	174	30	39	62	85	109	131	78
2400Hz - Continuous	High	45	54	84	117	146	170	42	48	69	90	112	131	88
2400Hz - Continuous	Low	42	48	77	111	141	163	33	41	59	82	103	123	78
Chime - Temporal 3	High	42	45	78	111	142	164	32	39	59	81	104	124	71*
Chime - Temporal 3	Low	33	42	76	109	141	162	29	36	56	78	101	123	64*
Chime - 5 Second	High	39	47	78	111	144	176	30	39	62	86	110	130	71*
Chime - 5 Second	Low	40	46	78	110	143	175	30	38	60	84	109	130	64*
Chime - Continuous	High	44	46	79	112	140	162	34	40	61	81	105	126	71*
Chime - Continuous	Low	36	43	77	110	139	162	30	35	57	79	102	121	64*
Whoop	High	61	70	104	136	165	189	64	70	93	113	135	154	82*
Whoop	Low	39	48	82	115	144	167	37	45	66	87	111	131	69*

• *The three pulse temporal pattern is to be used for evacuation use only.*

* *These settings are acceptable only for private mode fire alarm signaling use. Operating the horn in this mode at this voltage will result in not meeting the ANSI/UL 464 sound requirements for public mode fire protection service.*

6.47"
164.31 mm

6.76"
171.63 mm

4.63"
117.6 mm

Wiring Diagram

UL Listed Control Panel

Supervised Signal Circuit

Signal

S+ S+ S- H+ H-

Signal

S+ S+ S- H+ H-

END OF LINE RESISTOR
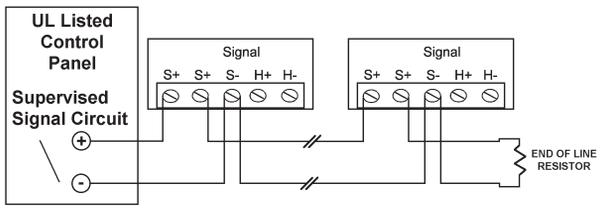
Notes

- Indoor operating temperature: 32° to 120°F (0° to 49°C)
- Outdoor operating temperature: -40 to 150F (-40 to 66C)
- The GWS/GWHS series is listed for outdoor use
- For nominal and peak current across ANSI/UL regulated voltage range for filtered DC power, see installation manual
- This appliance is not recommended for use on coded or pulsing signaling circuits

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Architect & Engineering Specifications

The audible and/or visible signal shall be Gentex model GWS or GWHS or approved equal and shall be listed by Underwriters Laboratories per ANSI/UL 1638 and/or ANSI/UL 464 and CAN/ULC 526 and/or CAN/ULC 525 with intended use in fire alarm systems. The notification appliance (GWHS) shall produce a peak sound output of 88 dBA or greater as measured at 24 VDC in a reverberant room and shall also have the capability to silence the audible signal while leaving the visible signal energized with the use of a single pair of power wires. Additionally, the user shall be able to select either continuous or temporal tone output with the temporal signal having the ability to be synchronized. The audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2Hz regardless of power input voltage. The strobe appliance shall have an operating current of 35mA or less at 24 VDC for the 15 candela strobe circuit. The unit shall be polarized to allow for electrical supervision of the system wiring. The unit shall be provided with a mounting bracket with terminals with barriers for input/output wiring, a weatherproof cover and an outdoor listed backbox. The GWS/GWHS Series shall be mounted on the wall or ceiling. The unit shall have an input voltage range of 16-33 volts with direct current power. The appliance has an extended temperature range of -40 to 150F (-40 to 66C) and shall satisfy virtually all outdoor and severe environment applications. The weatherproof cover includes a gasket that must be inserted between the weatherproof cover and device. The included drain holes in the back box to allow for drainage. The seal on the waterproof cover is not water tight.

GENTEX CORPORATION

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