

GWS/GWHS Colored Lens Series

Outdoor Ceiling/Wall Mount Selectable Candela Evacuation Signals

24 VDC Colored Lens Strobe and Horn/Strobe

8 Units per carton, 17 pounds per carton

Application

The GWS/GWHS Commander 5 Colored Lens Series is an outdoor universal ceiling and wall mount strobe or horn/strobe combination that offers dependable audible and visual alarms for warning and emergency notification. Applications include emergency communication, severe weather, emergency response and many more.

The GWS/GWHS Colored Lens Series are 24VDC units available in lens colors of amber, blue, green and red. The series offers tamperproof field selectable strobe options. 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 Colored Lens Series is shipped with a standard 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 that secures the signal to the bracket without showing any screws. The GWS/GWHS Colored Lens Series also features the patented Checkmate® instant voltage verification feature which allows the installer to check the voltage drop draw and match it against the blueprint.

The Commander 5 Colored Lens Series is ANSI/UL1638, ANSI/UL464, CAN/ULC 525 and/or CAN/ULC 526 listed. The ANSI/UL 1638 light output is equal to the candela listed on the product, no derating was required because of the outdoor enclosure. The GWS/GWHS Colored Lens Series is warranted for three years from date of purchase.

Standard Features

- Nominal Voltage 24 VDC
- GWS/GWHS shipped with outdoor listed backbox and weatherproof cover
- Tamperproof field selectable candela
- Amber, Blue and Green Candela settings: 15, 30, 60, 75, 95, 115 candela
- Red Candela settings: 10, 15, 30, 45, 60, 75 candela
- 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
- Documented lower installation and operating costs
- 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



- 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

Product Models

GWS Colored Lens 24VDC Outdoor, Selectable Candela, Low Profile Evacuation Strobe

Model	Part Number	Lens Color	Voltage (VDC)	Candela
GWSAPR	904-1491-002	Amber	24	15, 30, 60, 75, 95, 115
GWSAPW	904-1492-002	Amber	24	15, 30, 60, 75, 95, 115
GWSBPR	904-1493-002	Blue	24	15, 30, 60, 75, 95, 115
GWSBPW	904-1494-002	Blue	24	15, 30, 60, 75, 95, 115
GWSGPR	904-1495-002	Green	24	15, 30, 60, 75, 95, 115
GWSGPW	904-1496-002	Green	24	15, 30, 60, 75, 95, 115
GWSRPR	904-1497-002	Red	24	10, 15, 30, 45, 60, 75
GWSRPW	904-1498-002	Red	24	10, 15, 30, 45, 60, 75

R = Red Faceplate, W = White Faceplate.

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

GWHS Colored Lens 24VDC Outdoor, Selectable Candela, Evacuation Horn/Strobe

Model	Part Number	Lens Color	Voltage (VDC)	Candela
GWHSAPR	904-1499-002	Amber	24	15, 30, 60, 75, 95, 115
GWHSAPW	904-1500-002	Amber	24	15, 30, 60, 75, 95, 115
GWHSBPR	904-1501-002	Blue	24	15, 30, 60, 75, 95, 115
GWHSBPW	904-1502-002	Blue	24	15, 30, 60, 75, 95, 115
GWHSGPR	904-1503-002	Green	24	15, 30, 60, 75, 95, 115
GWHSGPW	904-1504-002	Green	24	15, 30, 60, 75, 95, 115
GWHSRPR	904-1505-002	Red	24	10, 15, 30, 45, 60, 75
GWHSRPW	904-1506-002	Red	24	10, 15, 30, 45, 60, 75

GWS 24VDC Colored Lens Series Strobe Current Ratings

Candela	Regulated 24VDC Max. Operating Current (mA)	Nominal 24VDC Operating Current (mA)
15 10*	36 mA	30 mA
30 15*	54 mA	42 mA
60 30*	93 mA	65 mA
75 45*	112 mA	78 mA
95 60*	138 mA	98 mA
115 75*	162 mA	119 mA

* Candela lens strobe ratings with asterisk apply to Red lens only.

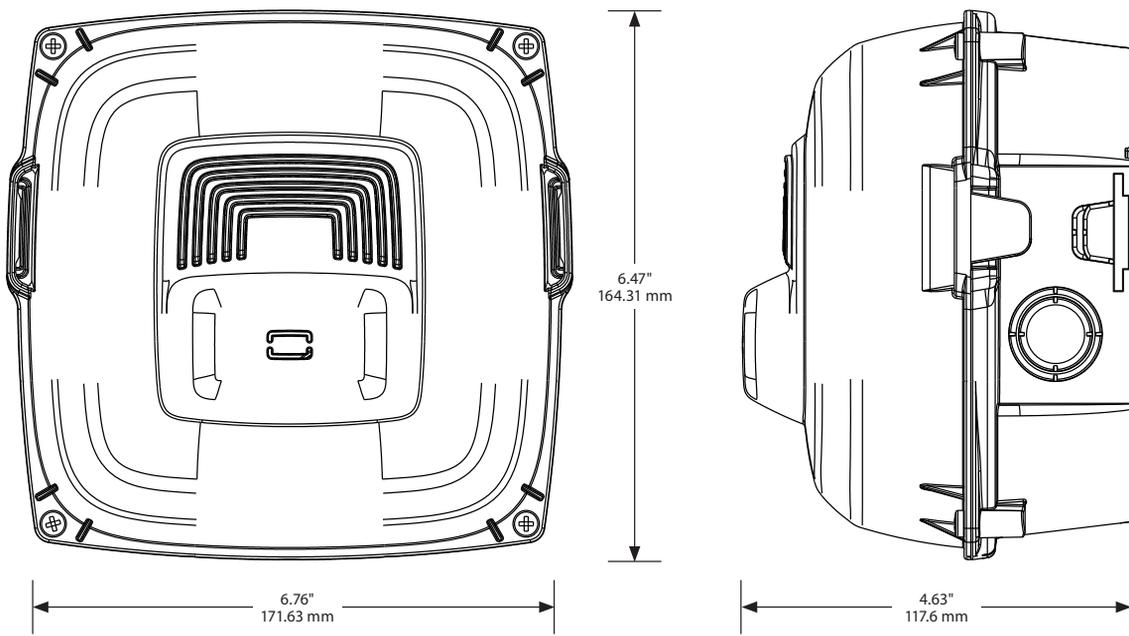
GWHS Colored Lens 24VDC Horn/Strobe Horn Decibel (dBA) and Current Ratings (mA)

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 16-33VDC*	
		15 10*	30 15*	60 30*	75 45*	95 60*	115 75*	15 10*	30 15*	60 30*	75 45*	95 60*		115 75*
Mechanical - Temporal 3	High	43	63	103	121	144	167	38	50	74	87	103	124	86
Mechanical - Temporal 3	Low	41	60	100	119	142	164	34	46	70	83	99	121	77
Mechanical - Temporal 4	High	41	57	88	114	143	175	32	47	70	87	108	132	86
Mechanical - Temporal 4	Low	39	57	87	113	143	174	31	46	69	86	107	131	77
Mechanical - Continuous	High	49	69	105	125	146	171	46	56	80	93	111	130	86
Mechanical - Continuous	Low	43	61	101	119	141	165	35	48	72	84	102	122	77
2400Hz - Temporal 3	High	46	64	104	123	145	169	39	51	76	88	107	127	88
2400Hz - Temporal 3	Low	42	61	101	120	143	165	33	46	70	83	101	122	78
2400Hz - Temporal 4	High	41	58	88	114	143	175	34	47	70	86	107	130	88
2400Hz - Temporal 4	Low	39	57	87	113	143	172	32	46	69	85	105	129	78
2400Hz - Continuous	High	52	70	111	128	150	174	50	61	85	97	115	134	88
2400Hz - Continuous	Low	44	62	102	120	142	166	38	50	73	87	103	123	78
Chime - Temporal 3	High	44	62	101	120	143	166	37	49	72	85	103	123	71**
Chime - Temporal 3	Low	42	61	99	118	141	164	34	46	69	82	98	121	64**
Chime - 5 Second	High	41	56	86	113	142	172	33	46	69	87	108	131	71**
Chime - 5 Second	Low	40	60	86	112	141	173	32	45	68	86	107	130	64**
Chime - Continuous	High	46	64	99	119	141	164	40	51	73	86	107	127	71**
Chime - Continuous	Low	43	61	97	117	137	160	34	46	71	82	101	122	64**
Whoop	High	71	88	126	144	166	191	71	82	107	118	135	155	82**
Whoop	Low	47	65	103	121	143	168	42	54	78	91	108	129	69**

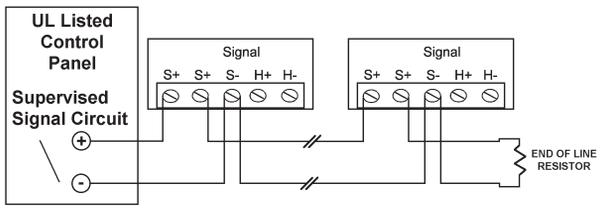
* The three pulse temporal pattern is to be used for evacuation use only.

* Candela lens strobe ratings with asterisk apply to Red lens 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.



Wiring Diagram



Notes

- Indoor operating temperature: 32° to 120°F (0° to 49°C)
- Outdoor operating temperature: -40 to 150F (-40 to 66C)
- The GWS/GWHS Colored 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

GWS/GWHS Colored Lens Series

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Architect & Engineering Specifications

The audible and/or visible signal shall be Gentex model GWS or GWHS Colored Lens 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 (WGHS) 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 36mA or less at 24 VDC for the 15 candela (amber, blue and green models) and 10 candela (red model) 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.



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