



CS/CHS SERIES

COLORED LENS STROBE & HORN/STROBE



P/N: See Chart

Dimensions

- Indoor Unit: 5" (12.7 cm) high x 4.5" (11.43 cm) wide x 2.5" (6.35 cm) deep
- WP Unit: 5.75" (14.605 cm) high x 4.75" (12.065 cm) wide x 4.18" (10.617 cm) deep
- LP Unit: 5.75" (14.605 cm) high x 4.75" (12.065 cm) wide x 3.25" (8.255 cm) deep

Features

- Nominal voltage 24VDC
- Unit is shipped with ANSI/UL1638 listed CS/CHS colored lens strobe or horn/strobe
- Indoor Unit: Tamperproof field selectable candela options of 15, 30, 60, 75, and 110
- Lens colors available: amber, blue, green and red
- Super-Slide® - Ease of Supervision Testing
- Checkmate® - Instant Voltage Verification
- Switch selection for high or low dBA
- Switch for chime, whoop, mechanical and 2400Hz tone
- Switch for continuous tone or temporal 3 (not available on whoop tone)
- Tamperproof re-entrant grill
- Separate horn and strobe functions
- Synchronize strobe and/or horn by using AVSM Control Module
- Indoor Model: Surface Mount with the AVBB (Surface Mount Back Box) or mount to a standard single gang or double gang box or double workbox
- Weatherproof Model: Listed to ANSI/UL1638 when used with WPBB or WPLPBB enclosure
- WPBB/WPLPBB made of clear Lexan® - provides maximum visibility and reliability for effective visible signaling - allowing full 75cd output
- Input terminals accept 12 to 18 AWG

The CS/CHS Series Colored Lens Signals are wall mount, low profile strobes or horn/strobes that offer dependable audible and visual alarms for warning and emergency notification. Applications include emergency communication, severe weather, emergency response and many more.

The CS/CHS Colored Lens Series are 24VDC units available in lens colors of amber, blue, green and red. The Indoor Series offers tamperproof field selectable candela options of 15, 30, 60, 75, and 110 candela. The Weatherproof Series is available in fixed candela option of 75.

Included with the Weatherproof Series is the WPBB or WPLPBB outdoor enclosure. The enclosure is made of high quality Lexan® material, providing protection from weather related conditions and allowing the necessary full candela output. The WPBB or WPLPBB enclosure meets various installation requirements including deterring moisture from entering the enclosures.

The CS/CHS Colored Lens Series has a minimal operation current and has a minimum flash rate of 1Hz regardless of input voltage.

The CS/CHS Colored Lens Series is shipped with a die cast 4" mounting bracket which incorporates the popular Super-Slide® feature that allows the installer to easily pre-wire the system and test for supervision. The product also features a locking mechanism that secures the signal to the bracket without showing any screws.

The CS/CHS Series also features the Checkmate® - Instant Voltage Verification Feature which allows the installer to check the voltage drop, current draw and match it against the blue print.

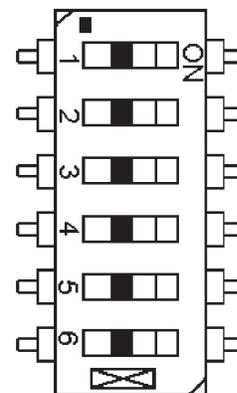
The CS/CHS Colored Lens Series are ANSI/UL1638 and ANSI/UL464 listed.



TONE	SWITCH POSITION		
	3	4	5
Mechanical Temporal 3	ON	ON	ON
Mechanical - Continuous	OFF	ON	ON
2400Hz - Temporal 3	ON	OFF	ON
2400Hz - Continuous	OFF	OFF	ON
Chime - Temporal 3	ON	ON	OFF
Chime - Continuous	OFF	ON	OFF
Whoop	ON	OFF	OFF
Whoop	OFF	OFF	OFF

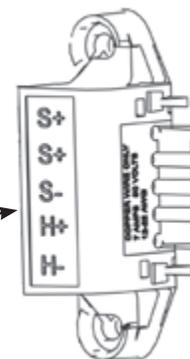
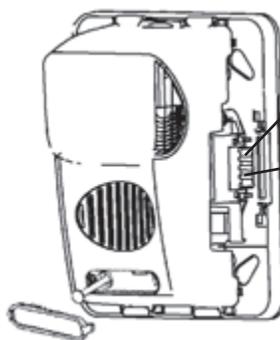
NOTE:

- Switch Positions 1 and 2 in the OFF position to select isolated horn and strobe power inputs.
- Switch Position 6 ON = HIGH dBA
- Switch Position 6 OFF = LOW dBA



Super-Slide[®] Mounting Bracket

Allows the installer to pre-wire the system, test for system supervision, remove the signal head until occupancy, switch out signals without changing mounting brackets and has locking edge connector for snap-in place installation.



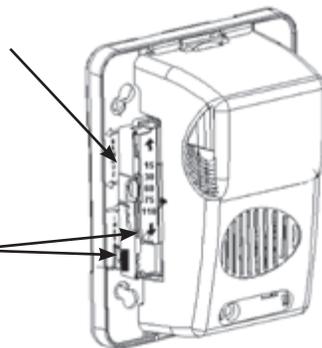
Checkmate[®] Instant Voltage Verification

It is often necessary to confirm the voltage drop along a line of devices. The access holes are provided in the back of the terminal block to allow the voltage to be measured directly without removing the device. Typically this would be done at the end of the line to confirm design criteria. Most measurements will be taken using the S+ and S- locations although access is provided to other locations.

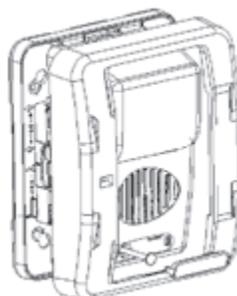
NOTE: Care should be taken to not short the test probes.

Candela selection slider switch. Depress center and slide switch to desire brightness level.

Break off pin and insert into hole at the bottom of the selector to lock candela setting. Signal must be removed from bracket and pin pushed forward from backside out of hole to change candela.



Indoor Model



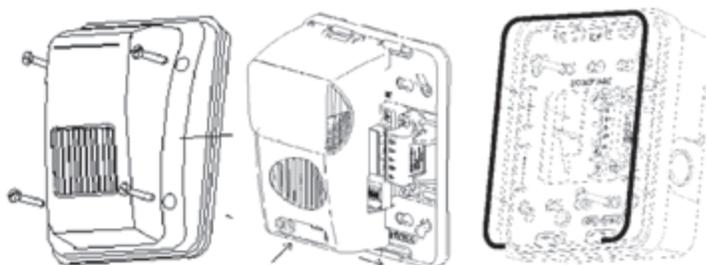
To remove bezel, grip both sides of bezel and pull in a downward and outward motion.



Mounting Outdoor Enclosure

Super-Slide[®] Mounting Plate:

Mounts to Outdoor Enclosure or Low-Profile Outdoor Enclosure



CS-24/CHS-24 Series - Indoor Model Settings

Model Number	P/N	Lens Color	Nominal Voltage	Candela (ANSI / UL 1638)	Reverberant dBA @ 10 ft. per ANSI / UL 464	In Anechoic Room dBA @ 10 ft.
CS-24WRR	98382	Red	24 VDC	15, 30, 60, 75, 110	N/A	N/A
CS-24WGR	98381	Green	24 VDC	15, 30, 60, 75, 110	N/A	N/A
CS-24WBR	98380	Blue	24 VDC	15, 30, 60, 75, 110	N/A	N/A
CS-24WAR	98379	Amber	24 VDC	15, 30, 60, 75, 110	N/A	N/A
CHS-24WRR	98366	Red	24 VDC	15, 30, 60, 75, 110	62-82	100
CHS-24WGR	98365	Green	24 VDC	15, 30, 60, 75, 110	62-82	100
CHS-24WBR	98364	Blue	24 VDC	15, 30, 60, 75, 110	62-82	100
CHS-24WAR	98363	Amber	24 VDC	15, 30, 60, 75, 110	62-82	100

CS-24 WP/CHS-24 WP Series - Outdoor Model Settings

Model Number	P/N	Lens Color	Nominal Voltage	Candela (ANSI / UL 1638)	Reverberant dBA @ 10 ft. per ANSI / UL 464	In Anechoic Room dBA @ 10 ft.
CS-24WRR-WP ¹	98374	Red	24 VDC	75	N/A	N/A
CS-24WGR-WP ¹	98373	Green	24 VDC	75	N/A	N/A
CS-24WBR-WP ¹	98372	Blue	24 VDC	75	N/A	N/A
CS-24WAR-WP ¹	98371	Amber	24 VDC	75	N/A	N/A
CHS-24WRR-WP ¹	98362	Red	24 VDC	75	70-82	100
CHS-24WGR-WP ¹	98361	Green	24 VDC	75	70-82	100
CHS-24WBR-WP ¹	98360	Blue	24 VDC	75	70-82	100
CHS-24WAR-WP ¹	98359	Amber	24 VDC	75	70-82	100
CSLP-24WRR-WP ²	98370	Red	24 VDC	75	N/A	N/A
CSLP-24WGR-WP ²	98369	Green	24 VDC	75	N/A	N/A
CSLP-24WBR-WP ²	98368	Blue	24 VDC	75	N/A	N/A
CSLP-24WAR-WP ²	98367	Amber	24 VDC	75	N/A	N/A
CHSLP-24WRR-WP ²	98358	Red	24 VDC	75	70-82	100
CHSLP-24WGR-WP ²	98357	Green	24 VDC	75	70-82	100
CHSLP-24WBR-WP ²	98356	Blue	24 VDC	75	70-82	100
CHSLP-24WAR-WP ²	98355	Amber	24 VDC	75	70-82	100

¹ These models ship with WPBB Outdoor Enclosure.

² These models ship with WPLPBB Low Profile Outdoor Enclosure.



Indoor Series - Amber Lens Strobe Current Ratings					
Candela	15cd	30cd	60cd	75cd	110cd
UL Max ³	47mA	64mA	113mA	145mA	178mA

Indoor Series - Red, Green, Blue Lens Strobe Current Ratings					
Candela	15cd	30cd	60cd	75cd	110cd
UL Max ³	105mA	130mA	203mA	243mA	310mA

³ RMS current ratings are per ANSI/UL average RMS method. ANSI/UL max current rating is the maximum RMS current within the listed voltage range (16-33VDC for 24VDC units). For strobes the UL max current is usually at the minimum listed voltage (16VDC for 24VDC units). For audibles the max current is usually at the maximum listed voltage. For unfiltered FWR ratings, see installation manual.

Outdoor Model Strobe Current Ratings	
Candela	75 cd
24 VDC	112 mA
UL Max ³	170 mA

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

NOTES:

- The CS-24/CHS-24 Series is listed for indoor use only. Operating Temperature: 32°F to 120°F (0°C to 49°C).
- The CS-24 WP/CHS-24 WP Series is listed for outdoor use. Indoor Operating Temperature: 32°F to 120°F (0°C to 49°C). Outdoor Operating Temperature: -31°F to 150°F (-35° C to 66°C).
- For nominal and peak current across ANSI/UL regulated voltage range for filtered DC power and unfiltered (FWR [Full Wave Rectified]) power, see installation manual.
- Janus Fire Systems does not recommend using a coded or pulsing signaling circuit with any of our strobe products.
- 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 its sound pressure is the same as the continuous mode.
- Operating the horn in this mode at this voltage will result in not meeting the minimum ANSI/UL 464 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).

Engineering Specifications - Indoor Model

The audible and/or visible signal shall be CS/CHS Series Colored Lens Series or approved equal and shall be listed by Underwriters Laboratories Inc. per ANSI/UL 1638 and ANSI/UL 464 and shall have compliance with the polar dispersion requirements of ANSI/UL 1971. The notification appliance shall also be listed with the California State Fire Marshal (CSFM).

The notification appliance (combination audible/visible) shall produce a peak sound output of 100dBA or greater as measured in an anechoic chamber. The signaling appliance 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.

Unit shall be capable of being installed so that any unauthorized attempt to change the candela setting will result in a trouble signal at the fire alarm control panel.

The audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2 Hz regardless of power input voltage. The appliance shall have an operating current of 74mA or less at 24 VDC for the 15cd strobe circuit.



The appliance 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 and be able to mount to a single gang or double gang box or double workbox without the use of an adapter plate. The unit shall have an input voltage range of 16-33 volts with either direct current of full wave rectified power for 24 volt models.

The appliance shall be capable of testing supervision without disconnecting wires. Also the appliance shall be capable of mounting to a surface back box. The unit shall also be able to verify voltage at the unit without removing unit.

Engineering Specifications - Weatherproof Model

The audible and/or visible signal shall be CS-WP/CHS-WP Series Outdoor Colored Lens Commander Series or approved equal and shall be listed by Underwriters Laboratories Inc. per ANSI/UL 1638 and/or ANSI/UL 464. The notification appliance shall also be listed with the California State Fire Marshal (CSFM).

The notification appliance (combination audible/visible) shall produce a peak sound output of 100dBA or greater at as measured in an anechoic chamber. The signaling appliance 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.

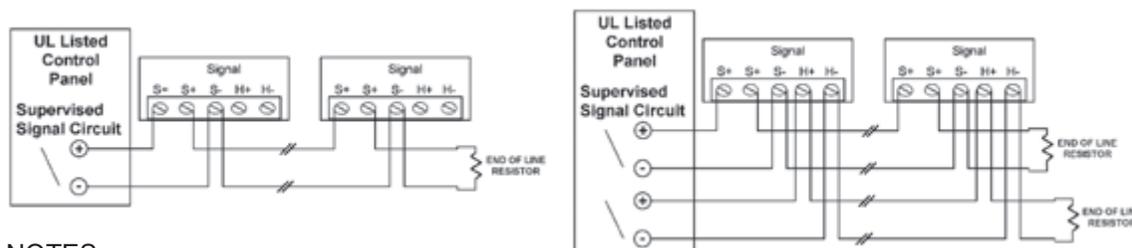
The audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2 Hz regardless of power input voltage. The appliance shall have an operating current of 112mA or less for the 75cd strobe circuit. The appliance shall also be capable of meeting the candela requirements of the ADA (75cd).

The appliance 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 and be able to mount to a single gang or double gang box or double workbox without the use of an adapter plate. The unit shall have an input voltage range of 16-33 volts with either direct current of full wave rectified power for 24 volt models.

The appliance shall be capable of testing supervision without disconnecting wires. Also the appliance shall be capable of mounting to a surface back box. The unit shall also be able to verify voltage at the unit without removing unit.

The appliance has extended temperature range of -31° to 150°F (-35° to 66° C). The appliance shall satisfy virtually all outdoor and severe environment applications. The WPBB enclosure is includes a gasket that must be inserted between the box and mounting bracket. There are drain holes in the back box to allow for drainage, the seal on the WPBB Enclosure is not water tight. The WPLPBB enclosure includes a weather seal for mounting to wall and intended for use with universal electrical box. To allow for drainage, bottom edge of enclosure is not water tight.

Conventional Wiring Diagrams for Emergency Notification Evacuation Series



NOTES:

- All strobes are designed to flash as specified with continuous applied voltage. Strobes should not be used on coded or pulsing signaling circuits. However, use of the AVSM-R control module (P/N 98377) or Gentex synchronization protocol is permitted to synchronize the strobe, horn and/or mute the horn.
- FOR SYNCHRONIZATION WIRING INFORMATION, REFERENCE AVSM-R CONTROL MODULE DATA SHEET (DS1284) AND/OR AVSM CONTROL MODULE MANUAL FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS.



Ordering Information

Model Number	Description	P/N
CS-24WRR	Strobe, Red Lens, Indoor	98382
CS-24WGR	Strobe, Green Lens, Indoor	98381
CS-24WBR	Strobe, Blue Lens, Indoor	98380
CS-24WAR	Strobe, Amber Lens, Indoor	98379
CHS-24WRR	Horn/Strobe, Red Lens, Indoor	98366
CHS-24WGR	Horn/Strobe, Green Lens, Indoor	98365
CHS-24WBR	Horn/Strobe, Blue Lens, Indoor	98364
CHS-24WAR	Horn/Strobe, Amber Lens, Indoor	98363
CS-24WRR-WP	Strobe, Red Lens, Outdoor (includes WPBB Outdoor Enclosure)	98374
CS-24WGR-WP	Strobe, Green Lens, Outdoor (includes WPBB Outdoor Enclosure)	98373
CS-24WBR-WP	Strobe, Blue Lens, Outdoor (includes WPBB Outdoor Enclosure)	98372
CS-24WAR-WP	Strobe, Amber Lens, Outdoor (includes WPBB Outdoor Enclosure)	98371
CHS-24WRR-WP	Horn/Strobe, Red Lens, Outdoor (includes WPBB Outdoor Enclosure)	98362
CHS-24WGR-WP	Horn/Strobe, Green Lens, Outdoor (includes WPBB Outdoor Enclosure)	98361
CHS-24WBR-WP	Horn/Strobe, Blue Lens, Outdoor (includes WPBB Outdoor Enclosure)	98360
CHS-24WAR-WP	Horn/Strobe, Amber Lens, Outdoor (includes WPBB Outdoor Enclosure)	98359
CSLP-24WRR-WP	Strobe, Red Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98370
CSLP-24WGR-WP	Strobe, Green Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98369
CSLP-24WBR-WP	Strobe, Blue Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98368
CSLP-24WAR-WP	Strobe, Amber Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98367
CHSLP-24WRR-WP	Horn/Strobe, Red Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98358
CHSLP-24WGR-WP	Horn/Strobe, Green Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98357
CHSLP-24WBR-WP	Horn/Strobe, Blue Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98356
CHSLP-24WAR-WP	Horn/Strobe, Amber Lens, Outdoor (includes WPLPBB Low Profile Outdoor Enclosure)	98355
AVBB-R	Surface Mount Backbox, Indoor (red)	98378
HSNG-AGENT-R	Bezel "AGENT" (red)	98376
HSNG-ALERT-R	Bezel "ALERT" (red)	98375

Note: Approvals/Listings maintained by and manufactured by Potter Electric Signal Company.

The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in the seller's sales contract or sales acknowledgment form. Every attempt is made to keep our product information up-to-date and accurate. All specific applications cannot be covered, nor can all requirements be anticipated. All specifications are subject to change without notice.



1102 Rupcich Drive
 Millennium Park
 Crown Point, IN 46307
 TEL: (219) 663-1600 FAX: (219) 663-4562
 e-mail: info@janusfiresystems.com
www.janusfiresystems.com