

## Features

- Tamperproof field selectable candela settings of 15, 30, 60, 75, and 110
- Lens colors available in amber, blue, green, and red
- Super-Slide® Bracket – Ease of supervision testing
- Checkmate® - Instant voltage verification
- Synchronize strobe and/or horn with AVSM module
- Silence audible while visual appliance remains flashing (for use in accepted jurisdictions)
- Switch for chime, whoop, mechanical, and 2400Hz tone
- Switch for continuous or temporal 3 tone (not available on whoop)
- Tamperproof re-entrant grill
- Product includes a 5 year warranty



7135-0328:0210  
7135-0328:0209

## Application

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

## Description

The CS/CHS Series Colored Lens Signals are 24VDC units available in lens colors of amber, blue, green, and red. The Series offers tamperproof field selectable options of 15, 30, 60, 75, and 110 candela. They have a minimal operating current and a minimum flash rate of 1Hz, regardless of input voltage. The strobes can be synced using a Gentex sync protocol or the AVSM Sync Module.

The Colored Lens Series is shipped with a die-cast universal 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 Colored Lens Series also features the Checkmate® - Instant Voltage Verification Feature which allows the installer to check the voltage drop, current draw, and match against the blue print.

## Product Listings

- ANSI/UL 464 and 1638
- CSFM 7135-0328:0210 (CHS Series)
- CSFM 7135-0328:0209 (CS Series)

## Technical Specifications

Operating Voltage	Nominal 24VDC (16-33VDC)
Environmental Limitations	32°F - 120°F (0° - 49°C) Indoor Only
Dimensions	5” H x 4.5” W x 2.5” D
Wiring Connections	Terminals accept 18 - 12 AWG
Mounting	Single gang, double gang, or 4” square backbox Surface mount with AVBB
Shipping Weight	1.05 lbs.

CS Series Colored Lens Strobe, Selectable Candela			
Model Number	Stock Number	Lens Color	Body Color
CS-24WAR	4890100	Amber	Red
CS-24WAW	4890101	Amber	Off-White
CS-24WBR	4890102	Blue	Red
CS-24WBW	4890103	Blue	Off-White
CS-24WGR	4890104	Green	Red
CS-24GW	4890105	Green	Off-White
CS-24WRR	4890106	Red	Red
CS-24WRW	4890107	Red	Off-White

Optional Bezels		
Wording	Color	Stock Number
AGENT	Red	4890262
AGENT	Off-White	4890263
ALERT	Red	4890264
ALERT	Off-White	4890265

All CS/CHS Series devices are plain (no wording).  
AGENT/ALERT bezels can be ordered separately.

CHS Series Colored Lens Strobe, Selectable Candela					
Model Number	Stock Number	Lens Color	Body Color	Reverberant dBA at 10', per ANSI/UL 464	In Anechoic Room dBA at 10'
CHS-24AR	4890120	Amber	Red	62-82	100
CHS-24AW	4890121	Amber	Off-White	62-82	100
CHS-24BR	4890122	Blue	Red	62-82	100
CHS-24BW	4890123	Blue	Off-White	62-82	100
CHS-24GR	4890124	Green	Red	62-82	100
CHS-24GW	4890125	Green	Off-White	62-82	100
CHS-24RR	4890126	Red	Red	62-82	100
CHS-24RW	4890127	Red	Off-White	62-82	100

UL Max Strobe Current Ratings (24VDC Regulated)		
Candela	Amber Lens	Blue, Green, and Red Lens
15cd	47mA	105mA
30cd	64mA	130mA
60cd	113mA	203mA
75cd	145mA	243mA
110cd	178mA	310mA

For unfiltered FWR ratings, see installation manual.

Horn Decibel and Current Ratings			
Horn Setting	Minimum dBA at 10', Per UL 464 (HIGH)	Minimum dBA at 10', Per UL 464 (LOW)	Regulated 24VDC Max. Operating Current, at High Setting (mA)
Temporal 3 2400Hz	78	71*	28
Temporal 3 Mechanical	76	70*	25
Temporal 3 Chime	70*	66*	15
Continuous 2400Hz	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 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).

**Tone Switch Locations**

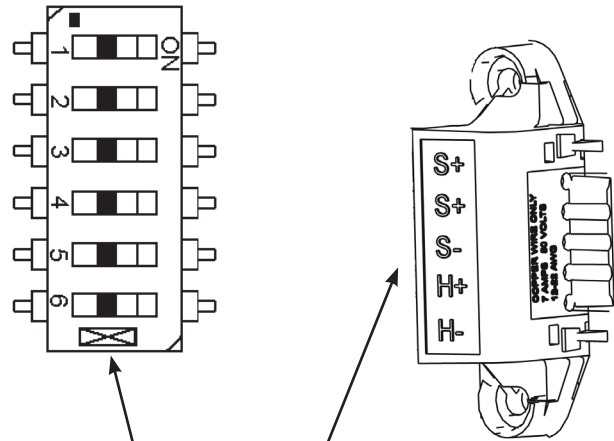
Tone	Switch Position		
	3	4	5
Mechanical Temporal 3	ON	ON	ON
Mechanical - Continuous	OFF	ON	ON
2400Hz - Temporal 3	ON	OFF	ON
2400Hz - Continuous	OFF	OFF	ON
Chime - Temporal 3	ON	ON	OFF
Chime - Continuous	OFF	ON	OFF
Whoop	ON	OFF	OFF
Whoop	OFF	OFF	OFF

**NOTES:**

- 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**

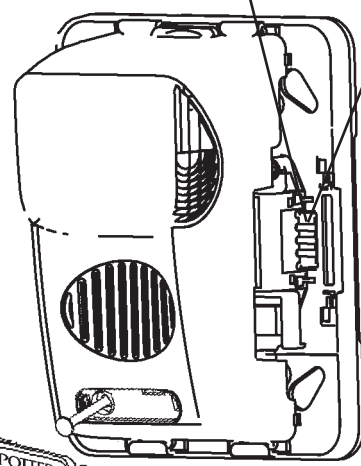
Allows the installer to pre-wire the system, test for system supervision, remove the signal head until occupancy, switch out signals without changing mounting brackets and has locking edge connector for snap-in-place installation.



**Checkmate® Instant Voltage Verification**

It is often necessary to confirm the voltage drop along the 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.

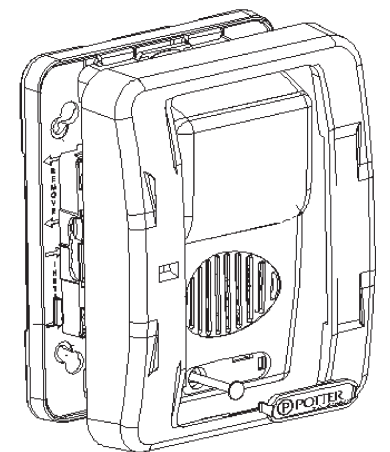
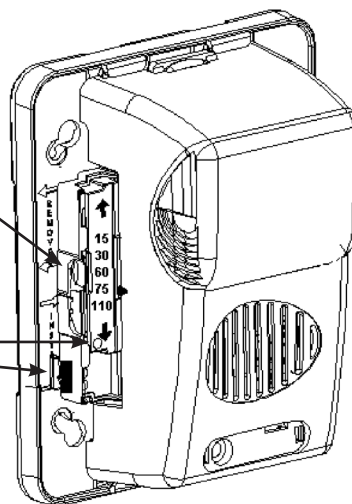
**NOTE:** Care should be taken to not short the test probes.



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

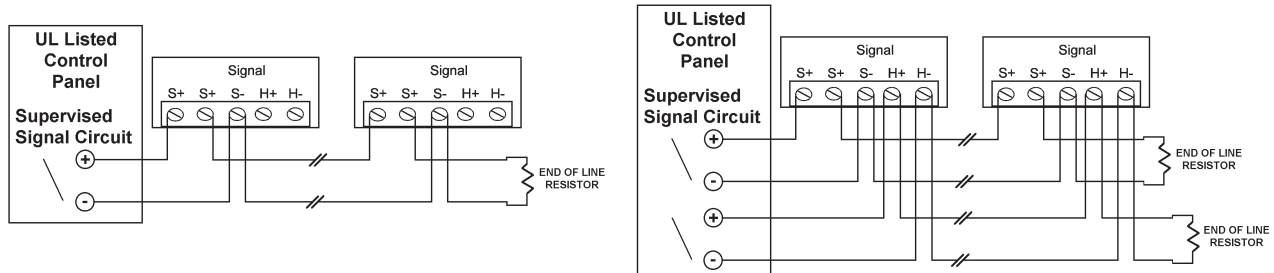


Break off pin and insert into hole at the bottom of the selector to lock candela setting. Signal must be removed from bracket and pin pushed forward from backside out of the hole to change candela.



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

## Wiring Diagrams



### 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 control module or Gentex synchronization protocol is permitted to synchronize the strobe, horn and/or mute the horn.
- **FOR SYNCHRONIZATION WIRING INFORMATION, REFERENCE AVSM CONTROL MODULE DATA SHEET (8830050) AND/OR AVSM CONTROL MODULE MANUAL FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS. AVSM CONTROL MODULE DATA SHEET AND MANUAL CAN BE OBTAINED AT <http://pottersignal.com> OR CALL POTTER ELECTRIC AT 1-800-325-3936.**

## Architect and Engineering Specifications

The audible and/or visible signal shall be Potter 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 or 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.