

**Features**

- High quality, low profile, low frequency audible and visible appliance
- Produces a 520 Hz square wave, temporal 3 tone
- Fixed candela options: 15, 110, and 177
- Jumper Selection for normal or loud dBA
- Input terminals accept 12 to 18 AWG
- Super-Slide® Bracket - Ease of Supervision Testing
- Checkmate® - Instant Voltage Verification
- Temporal 4 pattern available when used with compatible panels
- Prewire entire system, install mounting bracket, then install signals
- Silence signal while visual appliance will remain flashing (for use in accepted jurisdictions).
- Faceplate available in red or off-white
- Wall mount
- Five year warranty



**Description**

The LFHS is a high quality, low profile, low frequency audible and visible appliance that offers a dependable audible and visual alarm. The LFHS is ideal for any occupancy that requires low frequency notification appliances. The LFHS horn offers a 520 Hz square wave, temporal 3 tone. A jumper selection is available for normal or loud decibel tone. The LFHS is available in a fixed 15, 110 and 177 candela strobe. A temporal 4 pattern is available when used with compatible panels or GTSM sync module. The LFHS is available in a fixed 15, 110, or 177 candela strobe.

The LFHS is shipped with a standard 4” metal mounting plate which incorporates the Super-Slide® feature that allows installers to easily test for supervision. The product also features a locking mechanism which secures the product to the bracket without any screws showing.

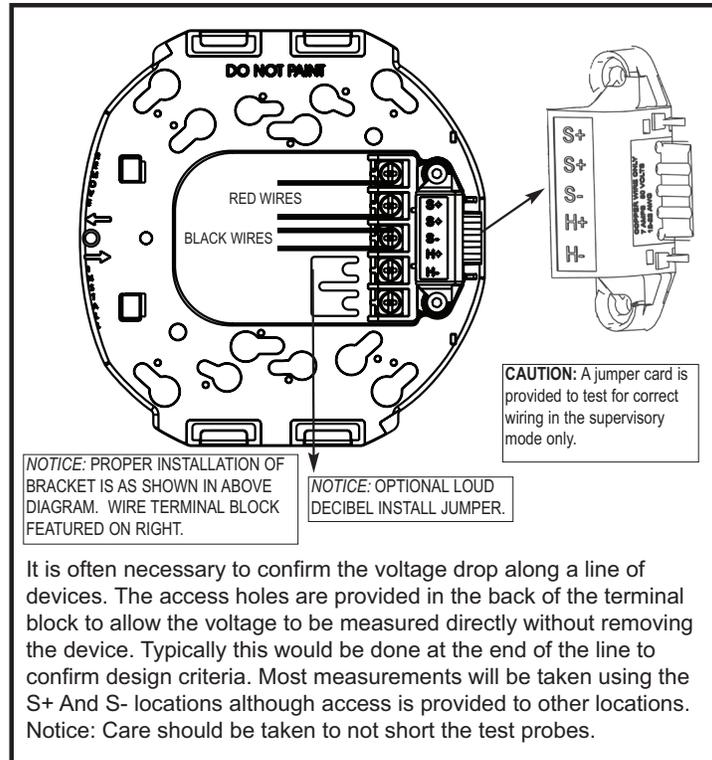
The LFHS also features the patented Checkmate - Instant Voltage Verification feature which allows the installer to check the voltage drop and match it to the blueprint.

The LFHS series appliances are ANSI/UL 464 and ANSI/UL 1971 listed for use with fire protective systems and are warranted for five years from date of purchase.

**Technical Specifications**

Mounting Options	Single or Double gang, or 4” square box
Terminals	Screw-clamp Type
Wire Gauge	12 to 18 AWG
Operating Voltage	24 VDC
Operating Temperature Range	32°F to 120°F
Dimensions	Height - 6.5” Width - 5.5” Depth - 2”

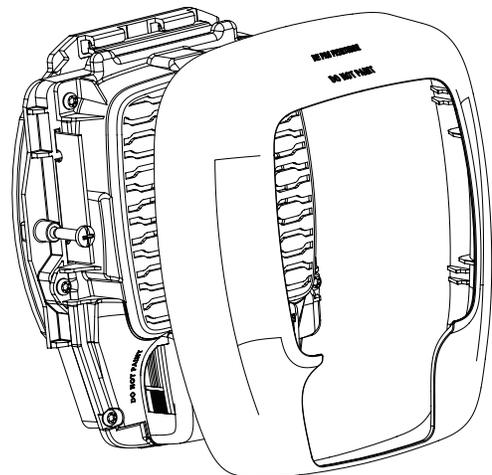
**Checkmate® Instant Voltage Verification**



**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

To remove bezel, squeeze top and bottom of bezel until bezel releases from bracket



**Ordering Information**

Model	Part Number	Nominal Voltage (VDC)	Candela
LFHS-177W	4890075	24 VDC	177 Cd
LFHS-177R	4890076	24 VDC	177 Cd
LFHS-110W	4890077	24 VDC	110 Cd
LFHS-110R	4890078	24 VDC	110 Cd
LFHS-15W	4890079	24 VDC	15 Cd
LFHS-15R	4890080	24 VDC	15 Cd

**Note:** R = Red faceplate, W = White faceplate. All units are plain (no lettering).

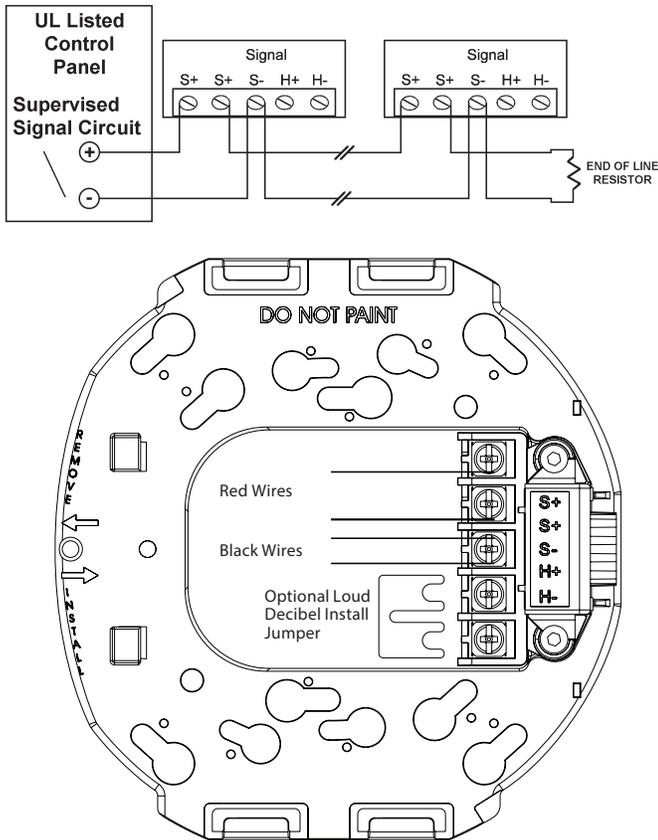
**ALERT** and **FIRE** bezels available for order.

**Horn/Strobe Current Ratings**  
**24VDC Nominal Horn/Strobe Current Ratings (mA) Over Input Voltage Range of 16-33V (mA)**

Candela	Horn Mode	24VDC Operating Current (NORMAL)	24VDC Operating Current (LOUD)	24VFWR Operating Current (NORMAL)	24VFWR Operating Current (LOUD)	Regulated 24VDC Max. Operating Current (NORMAL)	Regulated 24VDC Max. Operating Current (LOUD)	Regulated 24VFWR Max. Operating Current (NORMAL)	Regulated 24VFWR Max. Operating Current (LOUD)
15	Temporal 3 520 Hz	112.0 mA	144.0 mA	163.0 mA	198.0 mA	124.0 mA	182.0 mA	201.0 mA	252.0 mA
15	Temporal 4 520 Hz	158.0 mA	175.0 mA	210.0 mA	269.0 mA	195.0 mA	291.0 mA	273.0 mA	339.0 mA
110	Temporal 3 520 Hz	193.0 mA	223.0 mA	259.0 mA	295.0 mA	280.0 mA	326.0 mA	348.0 mA	427.0 mA
110	Temporal 4 520 Hz	241.0 mA	291.0 mA	325.0 mA	383.0 mA	384.0 mA	474.0 mA	470.0 mA	555.0 mA
177	Temporal 3 520 Hz	268.0 mA	293.0 mA	325.0 mA	329.0 mA	365.0 mA	393.0 mA	465.0 mA	478.0 mA
177	Temporal 4 520 Hz	337.0 mA	391.0 mA	428.0 mA	477.0 mA	427.0 mA	525.0 mA	693.0 mA	759.0 mA

Horn Mode	Minimum SPL at 10ft. Per ANSI/UL 464 (NORMAL)	Minimum SPL at 10ft. Per ANSI/UL 464 (LOUD)
Temporal 3 520 Hz	76.3 dBA	78.8 dBA
Temporal 4 520 Hz	80.6 dBA	82.0 dBA

## LFHS Wiring Diagram



- Notes**
- The LFHS is not listed for outdoor use.
  - 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.
  - 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.
  - This appliance is not recommended for use on coded or pulsing signaling circuits and is NFPA 72 Compliant.

## Architect and Engineering Specifications

The audible and visible appliance shall be Potter Electric Signal Company model LFHS. The appliance shall be listed with Underwriters Laboratories (ANSI/UL) for use with fire protective signaling systems (ANSI/UL 1971 and ANSI/UL 464) and with CAN/ULC S526 and CAN/ULC S525 with intended use in fire alarm systems. The LFHS will produce a peak sound output of at least 75 dBA as measured in an anechoic chamber. The LFHS shall also maintain a minimum flash rate of 1 Hz or up to 2 Hz regardless of power input voltage. The strobe appliance shall have an operating current of 365 mA or less for the 177 candela strobe circuit with the horn set at the NORMAL setting. 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 and 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 LFHS shall be mounted on the wall. The unit shall have an input voltage range of 16-33 volts with either direct current or full wave rectified power at 24 VDC. The appliance shall be capable of testing supervision without disconnecting wires, verify voltage without removing unit and be capable of mounting to a surface back box.