

## Features

- Super-Slide® Bracket – Ease of Supervision Testing
- Wall or Ceiling mount
- Checkmate® – Instant Voltage Verification
- Synchronize horn with Potter GTSM module
- Produces a 520Hz square wave, temporal 3 tone
- Jumper selection for normal or loud dBA
- Temporal 4 pattern available when used with GTSM module
- Tamperproof re-entrant style grill and locking screw (Optional)
- Faceplate available in red or off white
- 5 year warranty



## Application

The LFH Series is a high quality, low profile, audible appliance designed to meet the NFPA 72 requirements to install low frequency (520Hz) signaling in sleeping rooms.

## Description

The LFH horn offers a 520Hz square wave, temporal 3 tone. A jumper selection is available for normal or loud decibel tone. A temporal 4 pattern is available when used with the Potter GTSM Synchronization Control Module.

The LFH is equipped with a universal 4" metal 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 and 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

- Listed to ANSI/UL 464 and CAN/ULC S525
- CSFM: Pending

## Technical Specifications

Operating Voltage	Nominal 24VDC (16-33VDC)
Operating Temperature	32°F - 120°F (0° - 49°C)
Dimensions	6-1/8" H x 5 1/2" W x 1-5/8" D
Wiring Connections	Terminals accept 18 - 12 AWG
Mounting	Single gang, double gang, or 4" square back box

Ordering Information		
Model Number	Stock Number	Body Color
LFH-24R	4890070	Red
LFH-24W	4890071	Off-White

## Model Designations

“R” = Red

“W” = White

All units are plain (no lettering)

Horn Levels: Reverberant Room		
Horn Setting	Minimum dBA at 10', Per UL 464 (NORMAL)	Minimum dBA at 10', Per UL 464 (HIGH)
Temporal 3 520 Hz	77.8 dBA	79.8* dBA
Temporal 4* 520 Hz	81.5 dBA	83.4* dBA

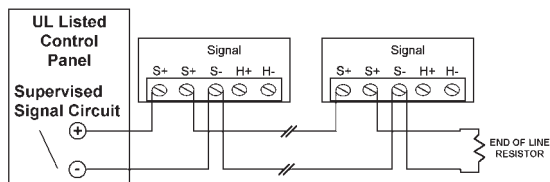
24VDC Normal Horn Current Rating (mA)				
Horn Setting	24VDC Operating Current (NORMAL)	24VDC Operating Current (LOUD)	24VFWR Operating Current (NORMAL)	24VFWR Operating Current (LOUD)
Temporal 3 520 Hz	72.1 mA	120.1 mA	104.6 mA	158.4 mA
Temporal 4* 520 Hz	75.9 mA	116.0 mA	108.1 mA	182.0 mA

Horn Current Ratings Over Input Voltage Range of 16-33V (mA)				
Horn Setting	Regulated 24VDC Max Operating Current (NORMAL)	Regulated 24VDC Operating Current (LOUD)	Regulated 24VFWR Max. Operating Current (NORMAL)	Regulated 24VFWR Max. Operating Current (LOUD)
Temporal 3 520 Hz	99.4 mA	155.8 mA	152.1 mA	213.5 mA
Temporal 4* 520 Hz	100.1 mA	157.2 mA	163.1 mA	235.2 mA

\* Temporal 4 520 Hz measured per ANSI/UL 2075

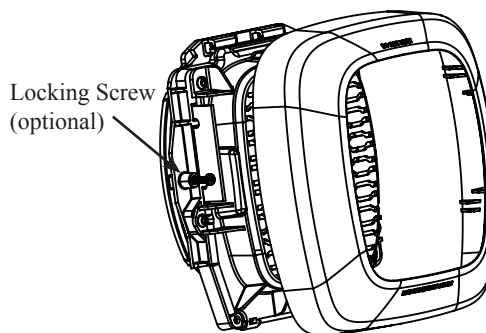
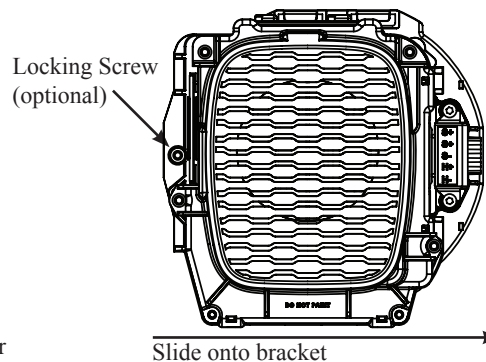
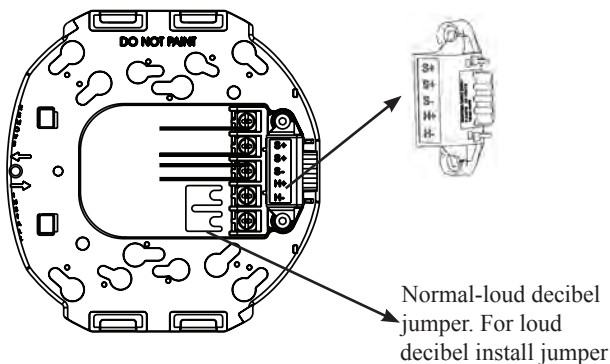
- For nominal and peak current across ANSI/UL regulated voltage range for filtered DC power and unfiltered (FWR [Full Wave Rectified]) power, see installation manual.
- The sound output for the temporal 3 tone is rated lower since the time the horn is off is averaged into the sound output rating.
- RMS 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 unfiltered FWR ratings, see installation manual.

\* 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).



**NOTES:**

- This appliance is not recommended for use on coded or pulsing signaling circuits.
- The four pulse temporal pattern (temporal 4) can only be obtained on this product when used in conjunction with the Potter GTSM Synchronization Module
- See GTSM Control Module Manual (???) for synchronization module wiring diagram. GTSM Manual can be obtained at [www.Pottersignal.com/fire](http://www.Pottersignal.com/fire) or call Potter Technical Support 1866-956-1211



**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.

**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.

**Architect and Engineering Specifications**

The alarm horns shall be Potter model LFH. The appliance shall be listed with Underwriters Laboratories (ANSI/UL) for use with fire protective signaling systems (ANSI/UL 464) and with CAN/ULC S525 with intended use in fire alarm systems. The LFH will produce a peak sound output of 88.3 dBA as measured in an anechoic chamber. 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 unit shall have an input voltage 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.