

Integrity Temporal Horn Installation Sheet

Description

The Integrity Temporal Horn is a fire alarm notification appliance designed for indoor or outdoor walls and ceilings. See Table 1 for temporal horn model numbers and Table 2 for accessory model numbers.

Table 1: Models

Description	Numbers	
Temporal horn, red	757-1A-T	INT-T
	XLS757-1A-T	2447TH-R
Temporal horn, white	757-1A-TW	INT-TW
	XLS757-1A-TW	2447TH-W

Table 2: Accessories

Description	Numbers	
Surface box, red, indoor	757A-SB	INT-SB
	XLS757A-SB	2459-SMB-R
Surface box, white, indoor	757A-SBW	INT-SBW
	XLS757A-SBW	2459-SMB-W
Weatherproof box, red, outdoor	757A-WB	INT-WB
	XLS757A-WB	2459-WPB-R
Weatherproof box, white, outdoor	757A-WBW	INT-WBW
	XLS757A-WBW	2459-WPB-W
Bi-directional mounting frame, red, indoor	757A-BDF	INT-BDF
	XLS757A-BDF	
Bi-directional mounting frame, white, indoor	757A-BDFW	INT-BDFW
	XLS757A-BDFW	

Installation

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Note: Electrical supervision requires the wire run to be broken at each terminal. Do not loop the signaling circuit field wires around the terminals.

Install this product in accordance with applicable requirements in the latest editions of NFPA 72 *National Fire Alarm and Signaling Code*, CSA C22.1 the *Canadian Electrical Code*, Part 1, Section 32, CAN/ULC-S524 *Installation of Fire Alarm Systems*, and in accordance with the local authority having jurisdiction.

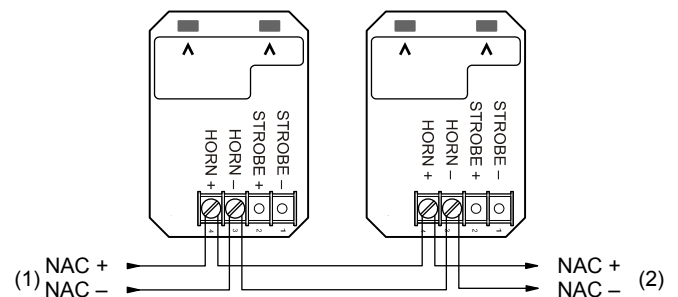
To install the temporal horn:

1. Select and install a suitable electrical box. See “Mounting the electrical box” on page 2 for details.
Note: Outdoor installations require a weatherproof backbox.
2. Set the tone and pattern. See “Selecting the volume and pattern” on page 2 for details.
3. Bring the signal circuit field wiring into the electrical box.
4. Position the mounting plate on the electrical box with the hook flange up and facing outward as shown in Figure 2. Fasten the plate using the screws provided.
5. Connect the signal circuit field wiring. For the unit to function properly, observe polarity. See Figure 1.

For additional wiring details, see the installation instructions for the signaling modules or circuits used in the fire alarm control panel.

6. After completing the connections, attach the unit to the mounting plate, as noted below.
 - a. The grille has tabs (at the top of the inner face) that engage with the hook flange on the mounting plate. Angle the bottom of the grille out slightly, and then slide the unit into place so that the tabs engage the flange.
 - b. Seat the grille by pressing the bottom in.
 - c. Fasten the bottom of the grille to the mounting plate by tightening the captive locking screw.
7. Apply power and activate the unit to verify that it is operating properly.

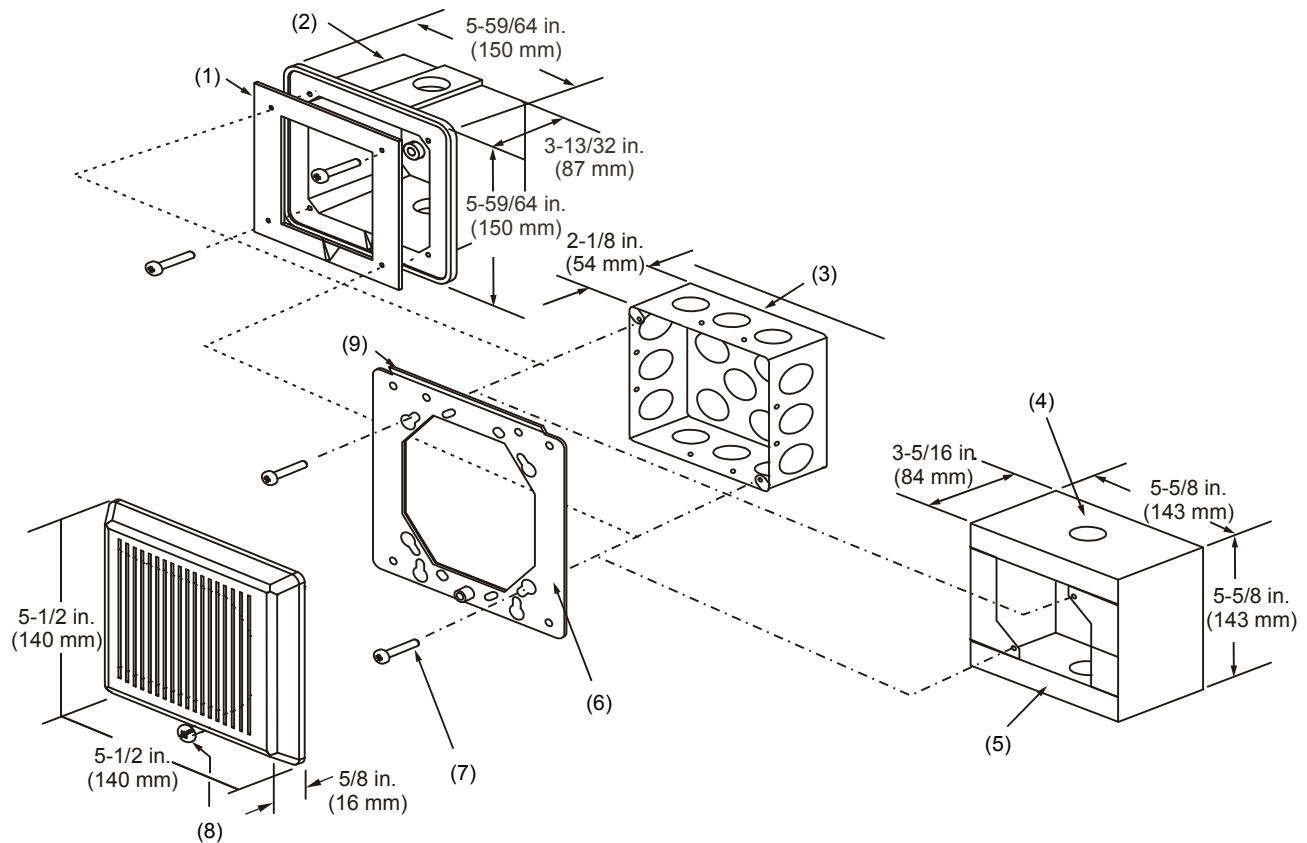
Figure 1: Typical wiring diagram



Polarity is shown in the active state.

- (1) From UL/ULC Listed fire alarm control panel signal circuit.
- (2) To next device or end of line resistor for Class B. Return to control panel for Class A connection.

Figure 2: Mounting diagram



- (1) Gasket with adhesive backing
- (2) Weatherproof box
- (3) Standard box
- (4) Knockouts for 1/2 in. (13 mm) or 3/4 in. (19 mm) conduit top, bottom, back
- (5) Surface mount box
- (6) Mounting plate (supplied with horn)
- (7) #8-32 screw
- (8) Captive locking screw
- (9) Hook flange

Mounting the electrical box

Figure 2 shows mounting details for:

- Standard box. When using a 4 in. square box, use an extension ring for additional wiring space, if needed. If using a double-gang electrical box that is 2-1/2 in. (64 mm) deep, locate the conduit only at the rear of the box.
- Weatherproof box. Peel off the adhesive backing from the gasket and adhere to the box.
- Surface mount box.

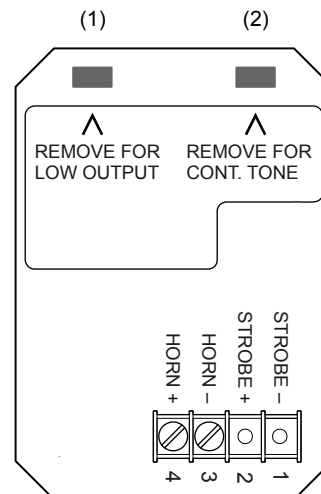
Selecting the volume and pattern

The horn has a jumper for selecting a high or low volume output level. The default is high volume. To set the output to low volume, remove the output jumper from the circuit board on the rear of the unit. See Figure 3.

The horn has a jumper for selecting either a temporal or steady tone. The default is temporal tone. To set the output to steady tone, remove the tone jumper from the circuit board on the rear of the unit. See Figure 3.

Tip: Save the jumper by sliding it onto a single pin.

Figure 3: Jumper setup and terminal block



Item	In	Out
(1)	High output	Low output
(2)	Temporal tone	Continuous tone

Maintenance

Note: Do not change the factory-applied finishes.

This unit is not serviceable or repairable. Should the unit fail to operate, contact the supplier for replacement.

Perform a visual inspection and an operational test twice a year or as directed by the local authority having jurisdiction.

Specifications

Operating voltage	16 to 33 VDC; 16 to 33 VFWR
Operating current	
16 to 33 VDC	85 mA
16 to 33 VFWR	105 mA
Sound output	See Table 3 and Table 4
Synchronization	Pulses at temporal rate within 200 ms on common circuit for 30 minutes
Horn temporal pattern	0.5 s on, 0.5 s off, 0.5 s on, 0.5 s off, 0.5 s on, 1.5 s off, repeat cycle
Wire size	12 to 18 AWG (0.75 to 2.50 mm ²)
Compatible electrical boxes	2-1/2 in. (64 mm) deep double-gang; Standard 4 in. square box 2-1/8 in. (54 mm) deep; surface or weatherproof mounting box per Table 1
Operating temperature	
Indoor	32 to 120°F (0 to 49°C)
UL outdoor	-31 to 150°F (-35 to 66°C)
ULC outdoor	-40 to 150°F (-40 to 66°C)
Relative humidity	
Indoor	93% noncondensing
Outdoor	98% noncondensing

Table 3: Reverberant room sound output (dBA) [1]

Method	Temporal		Continuous	
	Low	High	Low	High
UL464 at 16 VDC	73	80	77	83
ULI at 24 VDC	77	83	82	86
ULI at 33 VDC	78	85	82	88

[1] Sound level output at 10 ft. (3.05 m)

Table 4: ULC anechoic room sound output (dBA) [1]

Method	Temporal		Continuous	
	Low	High	Low	High
16 to 33 VDC	93	98	86	91
16 to 33 VFWR	96	100	90	93

[1] Average peak sound level output at 10 ft. (3.05 m)


Meets or exceeds CAN/ULC-S525-07, 85 dBA minimum anechoic at 3 meters, all settings

Table 5: ULC directional characteristic

Angle	dBA
90°	0 (ref)
57° and 123°	-3
37° and 143°	-6

Note: Horizontal and vertical axes provide the same pattern.

Regulatory information

Manufacturer	Edwards, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL 34202, USA
Year of manufacture	The first two digits of the date code (located on the product identification label) are the year of manufacture.
UL/ULC rating	Regulated 24 DC and Regulated 24 FWR [1]
Environmental class	Indoor or outdoor
North American standards	Meets: UL 464 and CAN/ULC-S525-07 Follow: NFPA 72 and CAN/ULC-S524
	2002/96/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info .

[1] This device was tested to the regulated 24 DC/FWR operating voltage limits of 16 V and 33 V.

Contact information

For contact information, see www.utcfireandsecurity.com.

