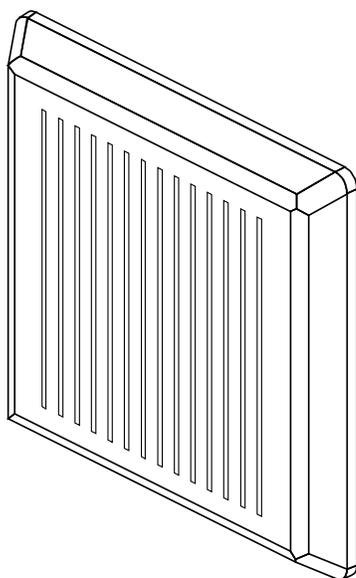


Product description



The Integrity Temporal Horn is a fire alarm notification appliance designed for indoor or outdoor use. The horn can be used for wall or ceiling mounting. See Table 1 for a list of model numbers.

The horn can be set to sound a temporal tone or a steady tone. Its output level can be set to 104 dBA or 99 dBA.

Install this product in accordance with applicable requirements in the latest editions of NFPA 72, *National Fire Alarm Code*, and the *Canadian Electrical Code, Part 1, Section 32*, and in accordance with the local authorities having jurisdiction.

Table 1: Model numbers

Model description	Model 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
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	

Specifications

Operating voltage: 20 to 31 Vdc or 20 to 27 Vfwr

The horn must be connected to a continuous voltage when it is set to sound a temporal tone; it may be connected to either a pulsed or continuous voltage when set to sound a steady tone.

Horn operating current at low volume setting

20 to 31 Vdc: 20 mA

20 to 24 Vfwr: 23 mA

Horn operating current at high volume setting

20 to 31 Vdc: 48 mA

20 to 24 Vfwr: 52 mA

Synchronization: Pulses at temporal rate within 200 ms on common circuit.

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

Sound output: See Table 2

Wire size: 12 to 18 AWG (2.50 to 0.75 sq mm)

Compatible electrical boxes

North American 2-1/2 inch (64 mm) deep 2-gang

Standard 4 in square box 2-1/8 in (54 mm) deep

Surface mounting box per Table 1

Operating humidity

Indoor: 93% relative humidity at 104 °F (40 °C)

Outdoor: 98% relative humidity at 104 °F (40 °C)

Operating temperature

Indoor: 32 to 120 °F (0 to 49 °C)

Outdoor: -35 to 150 °F (-31 to 66 °C)

Table 2: Sound output (dBA) [1]

Method	Temporal		Continuous	
	Low	High	Low	High
Anechoic - peak at 24 Vdc	99	104	99	104
Anechoic - average at 24 Vdc	94	98	94	98
Reverberant room per UL 464 at 24 Vdc	75	82	82	85
ULI at 20 Vdc	75	79	79	82

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

Installation instructions

WARNING: To reduce the risk of shock, do not tamper with the unit when the circuit is energized. Disconnect all power and allow 5 minutes for stored energy to dissipate before handling.

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

Figure 3 shows mounting details for a standard 4 in square box. An extension ring can be used for additional wiring space.

When using a standard 2-gang electrical box that is 2-1/2 in (64 mm) deep, conduit entry must be from the rear of the box.

Figure 3 also shows a weatherproof and surface mount boxes. See Table 1 for model numbers of compatible boxes.

To install the temporal horn:

1. The unit is set to 104 dBA at the factory. To set the output to 99 dBA, remove the low output jumper from the circuit board on the rear of the unit (see Figure 1).
2. The unit is set to temporal tone at the factory. To set the output to steady tone, remove the continuous tone jumper from the circuit board on the rear of the unit (see Figure 1).

Tip: Save each jumper by sliding it onto a single pin in case you need to change the settings again.

3. Select and install a suitable electrical box.
For outdoor installations use a weatherproof backbox.
4. Bring the signal circuit field wiring into the electrical box.
5. Position the mounting plate on the electrical box with the hook flange facing outward as shown in Figure 3. Fasten the plate using two pan-head slotted screws (supplied).
6. Connect the horn terminals to the signal circuit field wiring. You must observe polarity for the unit to function properly. See the *Wiring diagrams* topic, below.

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

7. After connections are complete, attach the unit to the mounting plate.
 - 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 slide the unit into place so that the tabs engage the flange.
 - Seat the grille by pressing the bottom in.
 - Fasten the bottom of the grille to the mounting plate by tightening the captive locking screw.
8. Apply power and activate the unit to verify that it is operating properly.

Jumper setup

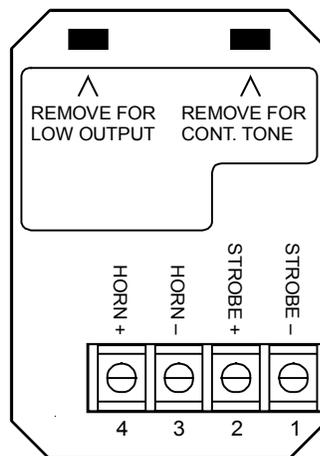


Figure 1: Jumper setup and terminal block

Wiring diagram

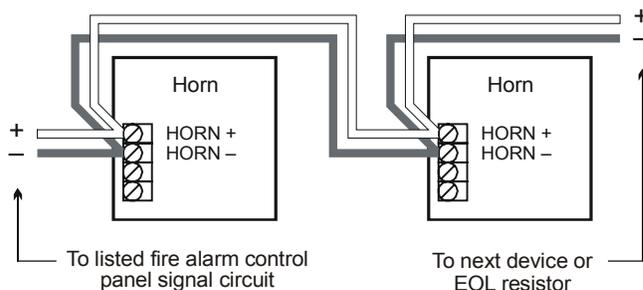


Figure 2: Wiring diagram

Maintenance

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.

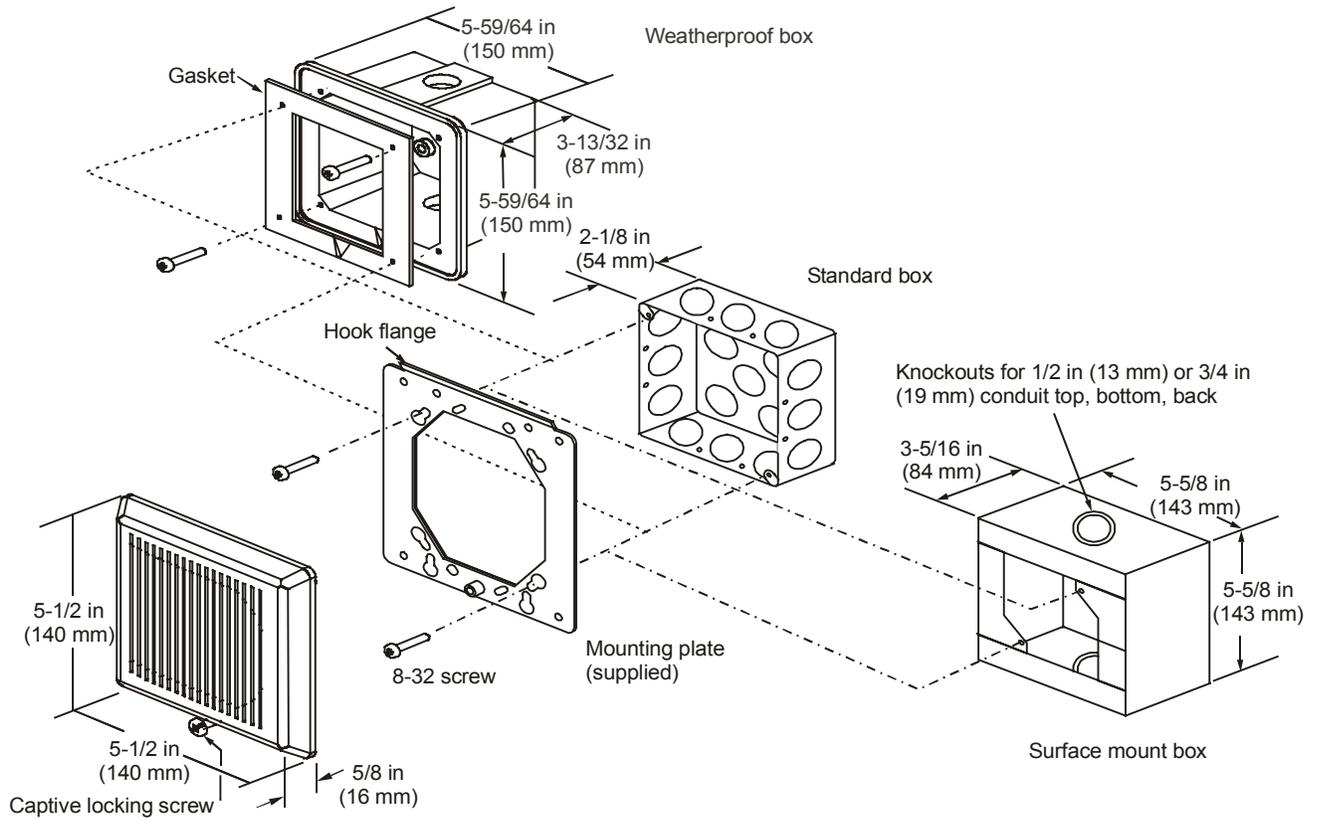


Figure 3: Mounting details