UL, ULC, CSFM Listed, FM Approved*

Features

Low current, 24 VDC electronic mini-horn provides the following features:

- Operation with Simplex SmartSync two-wire horn or strobe control
- Small profile horn packaged in a rugged, high impact, flame retardant thermoplastic housing, available in red or white
- Snap-on cover presents a clean and neat appearance. Removal of the snap-on cover requires a tool.
- Convenient mounting to a single gang electrical box, flush or surface mounted

SmartSync two-wire control of audible and visible notification appliance provides the following functions:

- Control of mini-horn tone as Temporal Pattern, March Time pattern, or on continuously; controlled separately from visible appliances on the same circuit
- Visible appliances on the same SmartSync circuit operate at a synchronized 1 Hz flash rate
- Operation that allows **On until silenced** and **On until reset** on the same two-wire pair

Listing reference

UL Listed to Standard 464

ULC Listed to Standard S525

Description

Mini-horns provide a loud and penetrating notification sound controlled by SmartSync two-wire operation. The compact package allows mounting in a variety of convenient locations. An output level switch allows selection of low or high sound output as required for the location. See specifications for details.

SmartSync operation mode uses a two-wire circuit to activate the horn and strobe on the same Notification Appliance Circuit (NAC) and then the horn can be silenced while the strobe remains flashing. The horn operates as **On until silenced** while the strobe operation is **On until reset**.

SmartSync two-wire control is available for the following models:

- 4006, 4007ES Hybrid, 4008, 4010, 4010ES, 4100ES, and 4100U Fire Alarm Control Units (FACUs). Refer to individual product data sheets for more information.
- 4009 IDNet NAC Extenders. Refer to the *4009 IDNet NAC Extender for Control with IDNet Communications or Conventional NACs S4009-0002* data sheet.
- SmartSync Control Module (SCM) Model 4905-9938. Refer to the *SmartSync Control Module and Strobe Synchronization Modules S4905-003* data sheet.

Figure 1: Front and side view of the red mini-horn

Product selection

Table 1: Product selection

Model	Description
4901-9858	Red mini-horn
4901-9859	White mini-horn

Specifications

Table 2: Specifications

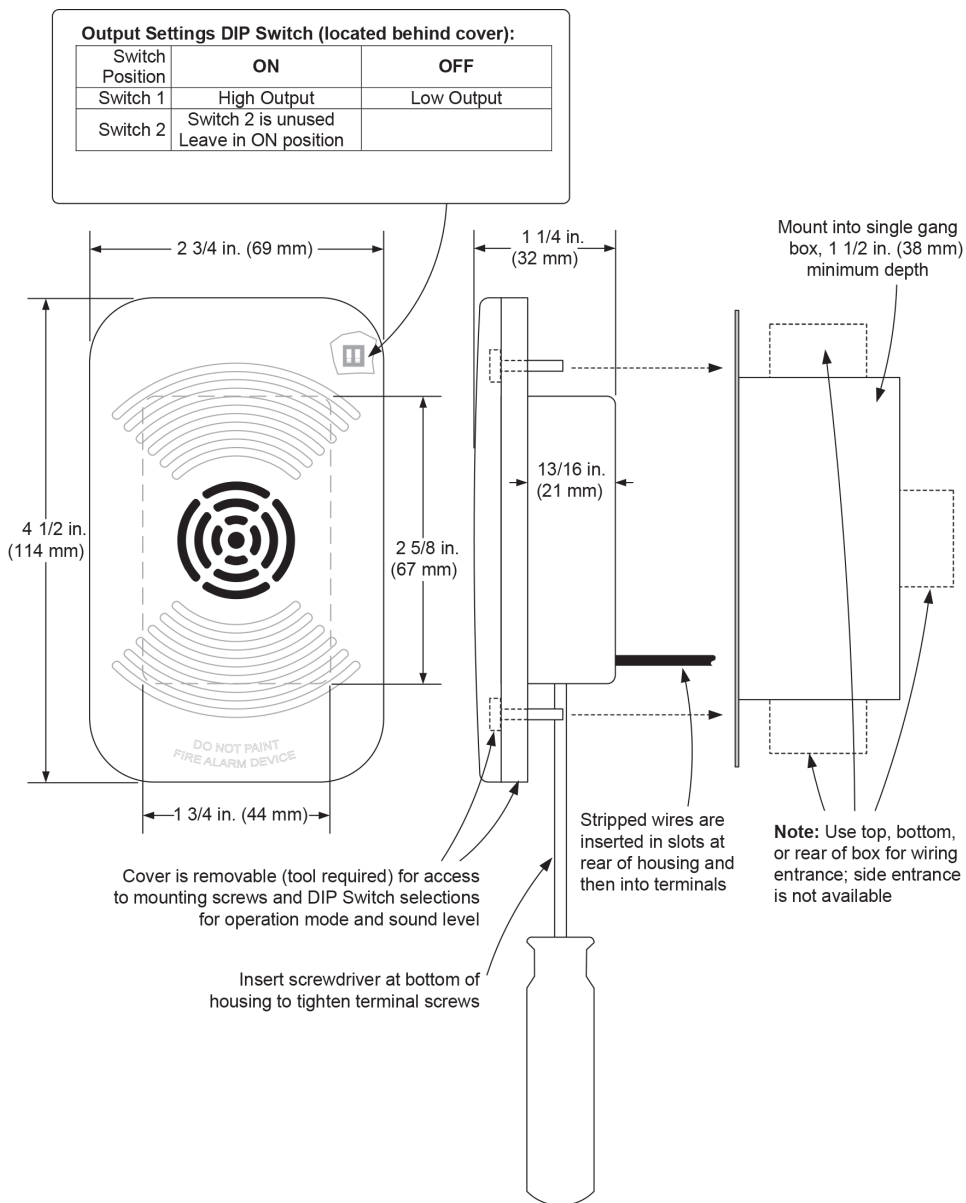| Specification	Description
Rated voltage range	16 VDC to 33 VDC
Current rating	19 mA maximum
Dimensions	4 1/2 in. H x 2 3/4 in. W x 1 1/4 in. D or 114 mm x 69 mm x 32 mm
Temperature range	32°F to 122°F or 0°C to 50°C
Humidity range	10% to 93%, non-condensing at 100°F or 38°C
Connections	Terminal blocks for 18 AWG to 12 AWG or 0.82 mm² to 3.31 mm²; two wires per terminal for in or out wiring

Table 3: Sound output ratings

Sound Level Test	Output Level Selection	
	High	**Low**
Reverberant chamber test, per UL 464 at 10 ft or ~3 m	79 dBA	68 dBA
Anechoic chamber test, for each ULC S525 at 3 m or ~10 ft	93 dBA	82 dBA
Polar dispersion reference for each ULC S525	-3 dBA at ± 40° off-axis	
	-6 dBA at ± 85° off-axis	

Note: UL output ratings below 75 dBA are for NFPA 72 Private Mode applications. ULC output ratings below 85 dBA are for use in applications for each applicable local codes.

Installation reference

For additional information, refer to *4901 TrueAlert Non-Addressable Mini-Horn Installation Instructions 579-870*.

Output Settings DIP Switch (located behind cover):

Switch Position	ON	OFF
Switch 1	High Output	Low Output
Switch 2	Switch 2 is unused Leave in ON position	

2 3/4 in. (69 mm)

1 1/4 in. (32 mm)

Mount into single gang box, 1 1/2 in. (38 mm) minimum depth

4 1/2 in. (114 mm)

13/16 in. (21 mm)

2 5/8 in. (67 mm)

DO NOT PAINT FIRE ALARM DEVICE

1 3/4 in. (44 mm)

Cover is removable (tool required) for access to mounting screws and DIP Switch selections for operation mode and sound level

Insert screwdriver at bottom of housing to tighten terminal screws

Stripped wires are inserted in slots at rear of housing and then into terminals

Note: Use top, bottom, or rear of box for wiring entrance; side entrance is not available

Figure 2: Installation reference