Simplex

UL, ULC, CSFM Listed;
FM Approved*

SmartSync 2-Wire Operation,
Non-Addressable Mini-Horns

Features

Low current, 24 VDC electronic mini-horn provides:

- Operation with Simplex® SmartSync 2-wire horn/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 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:

- Control of mini-horn tone as Temporal Pattern, March Time pattern (DIP Switch selectable for 60 BPM or 20 BPM), 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 allows a two-wire circuit to activate both the horn and strobe on the same NAC (notification appliance circuit) and then allows the horn to 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 from:

- 4006, 4007ES Hybrid, 4008, 4010, 4010ES, 4100ES, and 4100U Fire Alarm Control Panels (refer to individual product data sheets for more information)
- 4009 IDNet NAC Extenders (refer to data sheet S4009-0002)
- SmartSync Control Module (SCM) Model 4905-9938 (refer to data sheet S4905-0003)

Canadian two-stage alarm applications. A second switch position allows the SmartSync March Time pattern input to be selected as either 60 BPM or 20 BPM. 20 BPM is typically required for Canadian two-stage alarm applications as the pre-signal, followed by the Temporal Pattern. Two-stage alarm operation requires a 4007ES, 4010, 4010ES, 4100ES, or 4100U as the control panel.

Red Mini-Horn, Front and Side View

Product Selection

Model	Description
4901-9858	Red Mini-Horn
4901-9859	White Mini-Horn

Specifications

Rated Voltage Range	16 VDC to 33 VDC
Current Rating	19 mA maximum
Dimensions	4-1/2" H x 2-3/4" W x 1-1/4" D (114 mm x 69 mm x 32 mm)
Temperature Range	32° to 122° F (0° to 50° C)
Humidity Range	10% to 93%, non-condensing @ 100° F (38° C)
Connections	Terminal blocks for 18 AWG to 12 AWG (0.82 mm^2 to 3.31 mm^2); two wires per terminal for in/out wiring

Sound Output Ratings

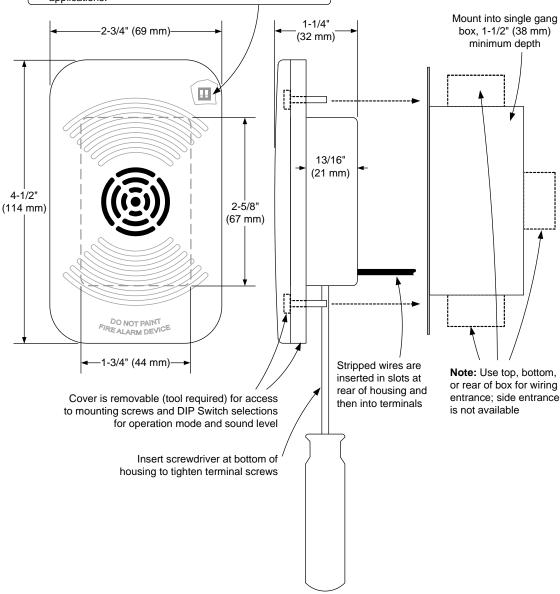| Sound Level Test	Output Level Selection	
	High	**Low**[**]
Reverberant Chamber Test, per UL 464 @ 10 ft (~3 m)	79 dBA	68 dBA[**]
Anechoic Chamber Test, per ULC S525 @ 3 m (~10 ft)	93 dBA	82 dBA[**]
Polar Dispersion Reference per ULC S525	-3 dBA at ± 40° off-axis -6 dBA at ± 85° off-axis	

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

* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7135-0026:334 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

For additional information, refer to Installation Instructions 579-870.

Output Settings DIP Switch (located behind cover):		
Switch Position	**ON**	**OFF**
Switch 1	High Output	Low Output
Switch 2	March Time Pattern = 60 BPM	March Time Pattern = 20 BPM*
* 20 BPM (beats per minute) is typically used for Canadian applications.		

2-3/4" (69 mm)

1-1/4" (32 mm)

Mount into single gang box, 1-1/2" (38 mm) minimum depth

4-1/2" (114 mm)

13/16" (21 mm)

2-5/8" (67 mm)

1-3/4" (44 mm)

DO NOT PAINT
FIRE ALARM DEVICE

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