

#### 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, 4008, 4100U, and 4010 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 4010 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 <sup>2</sup> to 3.31 mm <sup>2</sup> ); 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

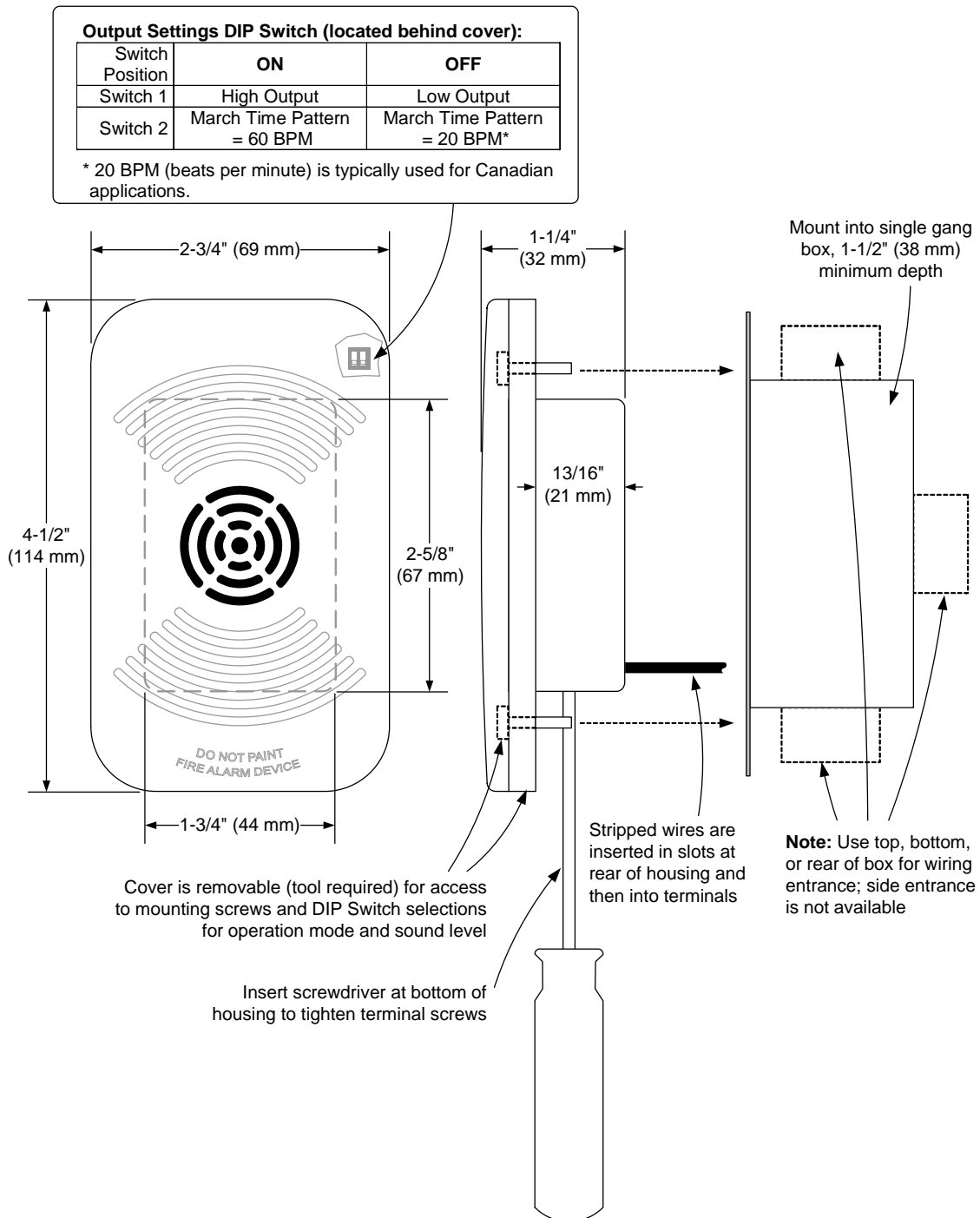
† The low level setting is not suitable for ULC fire applications and is for private mode applications per UL 464. Always test installed sound level against local requirements.

\* 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. It is subject to re-examination, revision, and possible cancellation. 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 Safety Products Westminster.

\*\* SmartSync two-wire horn/strobe operation is protected under U.S. Patent No. 6,281,789.

## Installation Reference

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



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