



# 870P and 871P Panel Mount AdaptaHorn Installation Sheet

## Description

The AdaptaHorns are UL listed vibrating horns. They are panel mounted, low current, high decibel horns designed for heavy-duty use indoors. The horns are intended for general signaling applications.

## PLC Compatibility

The electrical input load requirements for PLC compatible signaling devices are listed in Table 1. Signaling devices may be directly connected to output cards that meet these input load requirements.

24 VDC electromechanical horns such as the 871P-G1 can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. The Process Control Engineer should consult the PLC manufacturer when connecting 24 VDC electromechanical devices to PLCs.

## Installation

### 1. Panel Mounting (Indoor or NEMA 4X, 12, 12K/Outdoor)

Locate device to assure adequate spacing to other components. For live components at 250V or less, the recommended spacing is 1 1/4" (32mm) from device to live components mounted on the same surface and 1/2" (13mm) minimum between device and dead metal components other than mounting surface, unless otherwise dictated by local authorities, responsible design practices, or higher voltages.

Place the mounting template (Figure 1 on page 2), or the supplied trim gasket (do not remove protective backing), against the mounting surface. Mark and drill the mounting holes, and device clearance/wire entrance hole. For NEMA Type 4X, 12, 12K and outdoor applications, mounting must be to a smooth, flat surface of a NEMA Type 4X, 12, 12K enclosure or outdoor rated panel and all four mounting holes must be drilled.

### 2. Box Mounting (Indoor Only)

Select and install a standard 4" (102mm) square box.

**Note:** See device label for voltage specifications.

3. Route power source wiring. Connect incoming wires to the supplied (female) connector assembly using wire nuts (not supplied).

870P AC models have (2) black and (1) green ground wire. Polarity is not important.

871P DC models have a positive red lead, a negative black lead and a green ground lead. Polarity is important.

4. This device is supplied with an adhesive backed trim gasket. Remove the paper backing and apply adhesive side to back of unit. Use gasket when mounting the unit to an outdoor panel or for NEMA Type 4X or 12, 12K applications, or whenever extra sealing is desired.
5. Plug the male connector (on the device), into the female connector.
6. **NEMA 4X, 12, 12K/Outdoor Mounting:** Position the device onto the surface and secure using (4) #8-32 countersunk head thru-bolts, lockwashers and nuts (supplied).

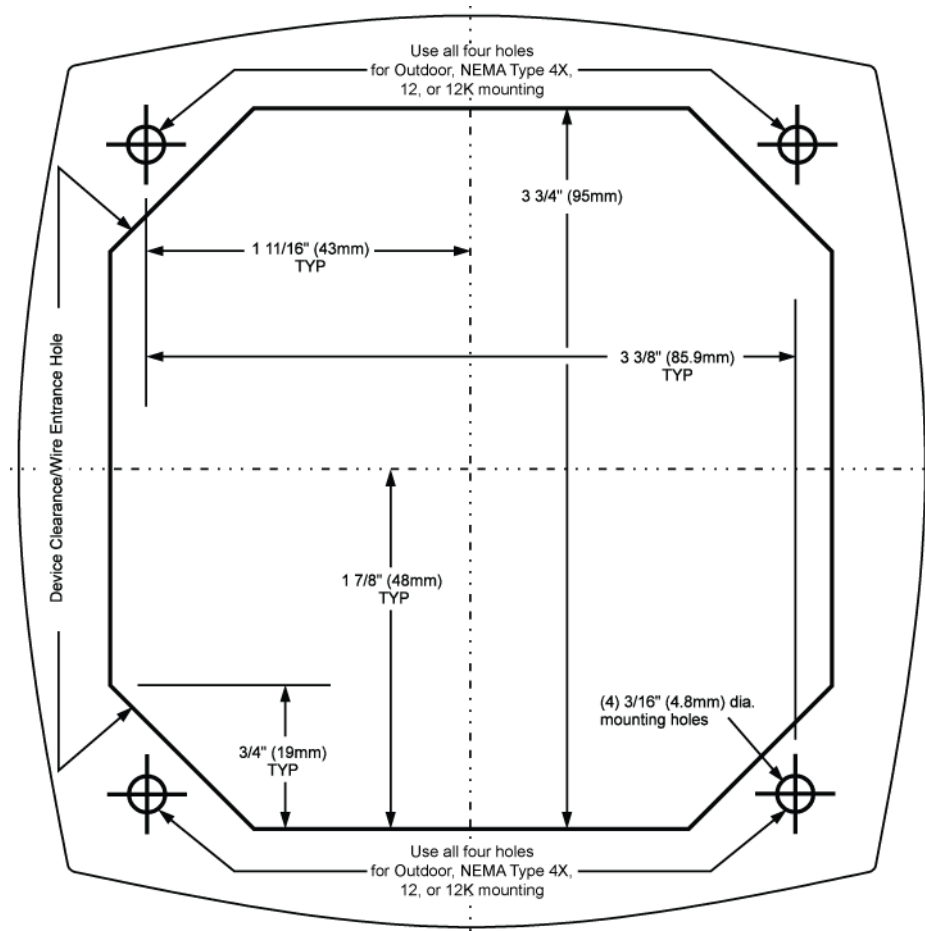
**Indoor or Box Mounting:** Position the device on the surface and secure using (2) #8-32 countersunk head thru-bolts, and nuts (when mounting to a panel). The (2) unused holes can be plugged with (2) #10-32 thread forming countersunk head bolts or can be used to further secure the device using (2) additional #8-32 countersunk head thru-bolts, and nuts (when mounting to a panel).

7. These devices have a volume adjustment set screw (located on the grille front) which is factory set at the maximum level. To reduce volume level, turn set screw clockwise using the supplied 1/16" allen wrench.

Table 1: PLC Compatibility

Catalog number	870P-N5	871P-G1
Operating voltage	120 VAC	24 VDC
Maximum off state leakage current	25 mA	25 mA
Continuous on current	125 mA	160 mA
Surge (inrush/duration)	1.02 A/0.000026 ms	1.7 A/0.000042 ms

Figure 1: Template for Panel Mounting



## Specifications

	Voltage	Current
870P-E5	12 VAC	1.25 A
870P-G5	24 VAC	0.63 A
870P-N5	120 VAC	0.13 A
870P-R5	240 VAC	0.07 A
871P-E1	12 VDC	0.27 A
871P-G1	24 VDC	0.16 A
871P-J1	32 VDC	0.13 A
871P-P1	125 VDC	0.025 A
871P-S1	250 VDC	0.014 A

## 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.
North American standards	Meets: UL 464

## Contact information

For contact information, see [www.edwardssignaling.com](http://www.edwardssignaling.com).