EDWARDS
SIGNALING PRODUCTS

Installation Instructions for Panel Mount AdaptaHorns

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.

24V DC 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 24V DC electromechanical devices to PLCs.

Installation

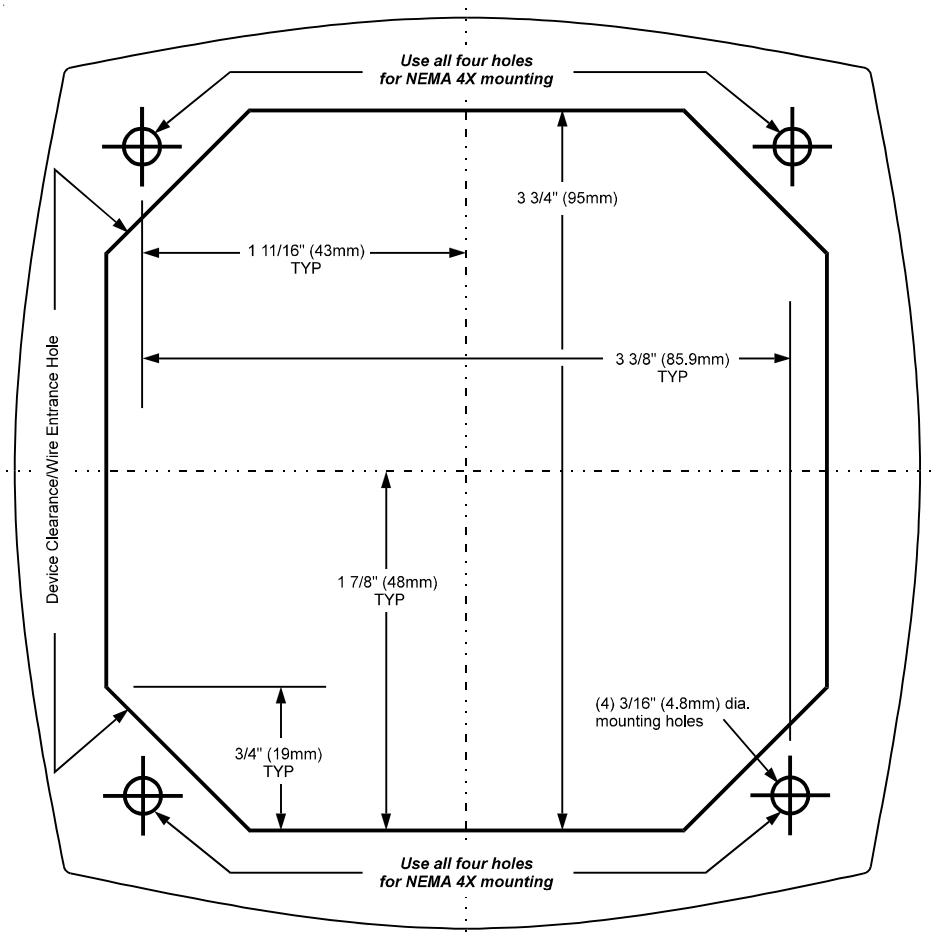
1. ***Panel Mounting (Indoor or NEMA 4X/Outdoor)***

   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.

Table 1. PLC Compatibility

Cat. No.	Operating voltage*	Maximum off state leakage current (mA)	Continuous on current (mA)	Surge (inrush/duration) (A/ms**)
870P-N5	120V AC	25	120	1.02/0.000026
871P-G1	24V DC	25	150	1.7/0.000042

*All AC volts at 60 Hz
**Amps/milliseconds



Template for Panel Mounting

Place the mounting template (below), 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 4X/Outdoor applications, mounting must be to a smooth, flat surface of a NEMA 4X/Outdoor panel or a NEMA 4X enclosure 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 4X applications, or whenever extra sealing is desired.

5. Plug the male connector (on the device), into the female connector.

6. ***NEMA 4X/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 2. Electrical Specifications

Cat. No.	Voltage	Current
870P-E5	12V 50/60 Hz	1.25A
870P-G5	24V 50/60 Hz	0.63A
870P-N5	120V 50/60 Hz	0.13A
870P-R5	240V 50/60 Hz	0.07A
871P-C1	6V DC	0.70A
871P-E1	12V DC	0.27A
871P-G1	24V DC	0.16A
871P-J1	32V DC	0.11A
871P-P1	125V DC	0.025A
871P-S1	250V DC	0.014A