

Description

The horn/strobes are high quality signals intended for use in general signaling applications. The strobes flash at 1 fps across their full operating voltage range.

It is recommended that these products be installed in accordance with the requirements in the latest edition of national and local electrical codes.

See Table 2 and Figures 1, 5 and 6 for specifications.

Table 1. Electronic Horn/Strobes

Horn/Strobe, Gray, Surface Mount Indoor	867STR(*)-**
Horn/Strobe, Gray, Surface Mount Outdoor	868STR(*)-**
Horn/Strobe, Gray, Flush or Panel Mount Indoor	869STR(*)-**

*Insert lens color. C = Clear, R = Red, G = Green, B = Blue or A = Amber.

**Insert voltage. N5 = 120V AC, AQ = 24V AC/DC

Installation

WARNING

To reduce the risk of shock, always disconnect all power before handling the unit.

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To reduce the risk of shock, do not tamper with this device when the signal circuit is energized. Disconnect all power and wait 5 minutes for stored energy to dissipate before handling.

1. Select a mounting method as detailed in Figure 1 and install the electrical box using suitable hardware.
 - a. For outdoor applications, install the weatherproof box using four #10 x 1 1/4" (32 mm) screws and caplugs provided in the enclosed parts bag. Carefully adhere the gasket, part number P-007549-0082 (provided in the enclosed parts bag) to the box as shown in Figure 1.

NOTE: Be sure hook flange is facing outward as shown in Figure 1.

NOTE: The designation "TOP" on boxes denotes orientation of box after installation.

2. Attach mounting plate using two #8-32 screws provided with the surface box or four #8-32 screws provided with weatherproof box. The flush box uses two #8-32 screws (not provided).
3. Bring signaling circuit field wiring into electrical box.
4. Connect signaling circuit field wires to terminals on horn/strobe assembly (Figures 2-4).

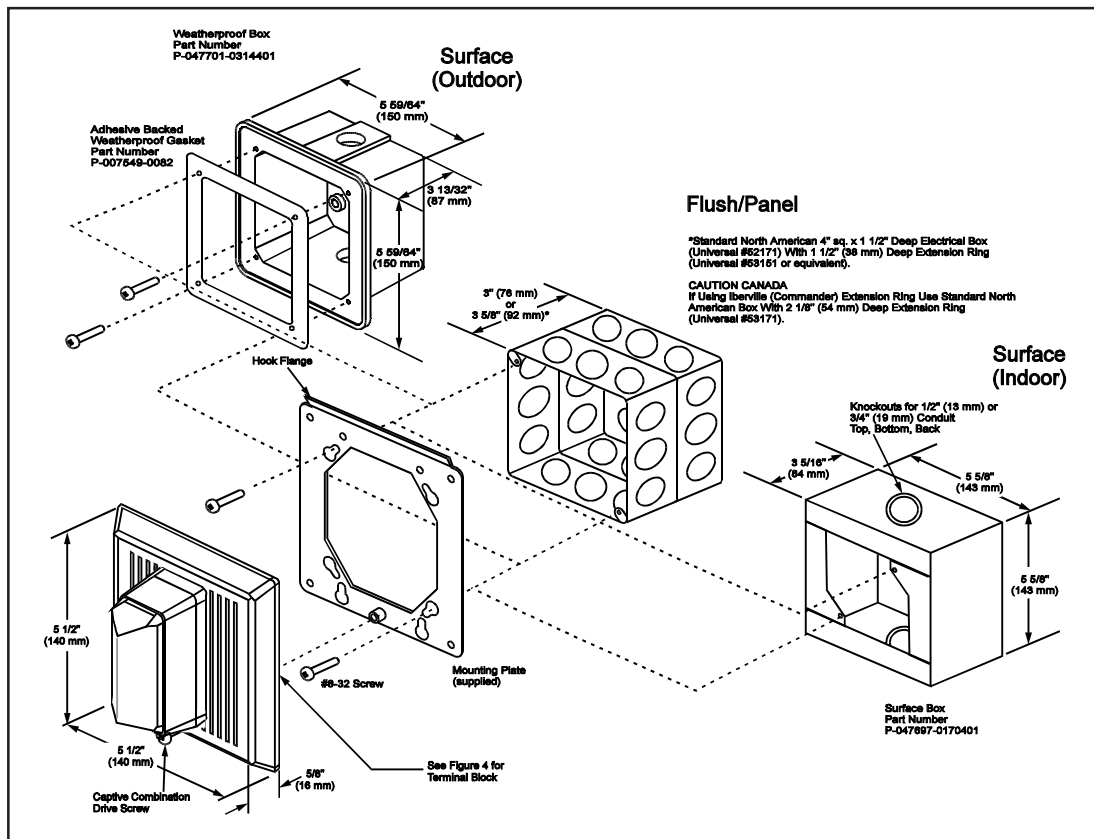


Figure 1. Detailed View

5. Ground in accordance with national and local electrical codes. A green ground screw is provided with both the indoor and outdoor surface boxes.
6. Mount the horn/strobe assembly on the mounting plate (Figure 1).
 - a. The inside of the top of the grille has hinges that pass through cutouts and engage with tabs on the mounting plate. With the bottom of the grille lifted out slightly, place the grille over the mounting plate so that the hinges of the grille are in the mounting cutouts.
 - b. Properly seat the grille by pressing the bottom in.
 - c. Fasten the bottom of the grille to the mounting plate by installing the captive combination drive screw.

7. Apply power and activate the horn/strobe unit to verify that it is operating properly.

Maintenance

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CAUTION

Should the unit fail to operate properly, do not attempt repair. Contact the supplier for replacement.

Perform a visual inspection and an operational test twice a year.

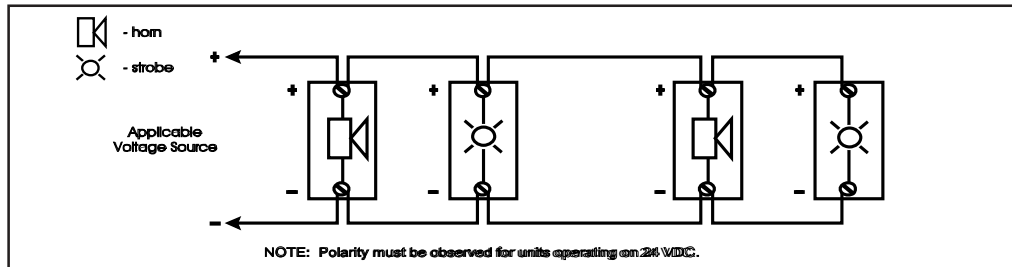


Figure 2. Wiring the Horn and Strobe on Same Circuit

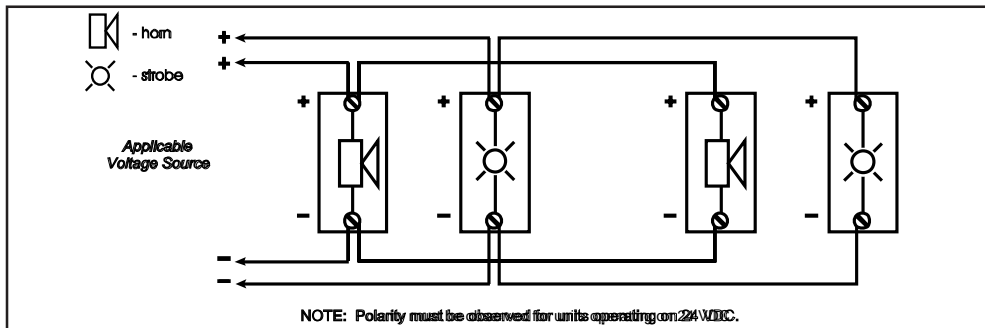


Figure 3. Wiring the Horn and Strobe on Different Circuits

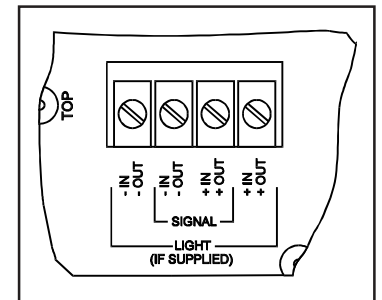


Figure 4. Terminal Block

Table 2. Specifications

	N5 Model	AQ Model	
Operating Voltage*	120V 50/60 Hz	24V 50/60 Hz	24V DC
Operating Current - Horn**	24 mA	72 mA	22 mA
Operating Current - Strobe**	87 mA	390 mA	390 mA
Flash Rate (per second)	approx. 1 fps		
Sound Level Output at 10 ft. (3.05 m) Anechoic Chamber	90 dBA nominal		
Operating Environment	Indoor	85% relative humidity @ 86F (30C); 32 to 120F (0 to 49C) variable ambient temperature	
	Outdoor	95% relative humidity @ 86F (30C); -31 to 150F (-35 to 66C) variable ambient temperature	

*The operating voltage to the horn can be continuous or coded such as march time or a temporal pattern meeting ISO8201 (ANSI S3.41) Audible Emergency Evacuation Signal.

**Horn and strobe currents are additive when connected in parallel.

NOTE: Cat. Nos. 867STR(*)-AQ, 868STR(*)-AQ and 869STR(*)-AQ potentially generate timing signals or pulses above 9 kHz and therefore have been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.