The EXS301 Series strobe signaling appliances are intended for general utility signaling use. The strobes are UL and cUL listed for use in Class I, Division 1, Group C and D, Class I, Division 2, Group A, B, C and D, Class II, Division 1, Group E, F and G, Class II, Division 2, Group F and G, and Class III Division 1 and 2 hazardous locations with operating temperature codes per Table 2.

The strobes are UL and cUL Listed, as Type 3R and 4X enclosures. Additionally, the 120V AC strobes are UL and cUL listed as Marine enclosures.

The strobe flashes a 360-degree beam of light approximately 65 times per minute.

The 120V 50/60 Hz strobes are available in pendant, bracket, ceiling, or stanchion mount models (Figure 1).

**Installation**

**WARNING**

To reduce the risks of ignition of hazardous atmospheres and shock, do not apply power to the unit until installation has been completed and unit is tightly assembled and secured.

Install this unit in accordance with the applicable requirements in the latest edition of the National Electrical Code and Canadian Electrical Code.

1. Mount using the following applicable method.

   a. **Pendant Mount Models** (Figure 2): Install the catalog number EXVMP3, pendant mounting module, to the main housing. Install explosion-proof hanger box (not supplied). Secure 3/4" (19 mm) NPT threaded conduit (not supplied) to the box. Install the unit on the conduit. Proceed to step 2.

   b. **Ceiling Mount Models** (Figure 3): Mount the catalog number EV22, ceiling/wall mounting module, using appropriate hardware (not supplied) suitable for the mounting surface. Proceed to step 2.

   c. **Wall Mount Models** (Figure 4): Install the catalog number EV22 ceiling/wall mounting module using appropriate hardware (not supplied) for the mounting surface. Install the catalog number EV87 wall mounting elbow to the wall box. Run the unit's wiring through the elbow to the wall box. Proceed to step 2.

   d. **Stanchion Mount Models** (Figure 5): Install the catalog number EVMJ4, stanchion mounting module, to the main housing. Run the unit's wires through the 1 1/4" conduit to the appropriate junction box. Install the unit on the conduit. Proceed to step 2.

2. Connect field earth ground wire to ground screw or earth ground via conduit system.

3. Using wire nuts, connect the incoming (+) or white wire to the unit's two (+) white wires and the incoming (-) or black wire to the unit's two (-) black wires. See Table 2 for required supply wire temperature ratings.

4. As appropriate, install the fixture on the mounting module.

**WARNING**

To reduce the risk of ignition of hazardous atmospheres and shock, keep assembly tightly closed when circuits are energized.

5. Apply power to the unit and ensure proper function.
Maintenance

Disassemble the unit as follows (Figure 6):

1. Loosen the (3) guard screws and remove the guard.
2. Loosen the globe and ring assembly set screw. Insert a suitable tool into the notches in the globe and ring assembly and loosen the assembly by prying in a counterclockwise direction. Remove the ring and globe assembly.
3. Refer to Table 1 for the correct replacement catalog number and replace the necessary part.
4. To replace, simply screw the unit on until it seats firmly onto its gasket. Tighten the unit another 1/8 to 1/4 turn. Tighten the setscrew.
5. Reinstall the guard, where applicable, and secure using the three supplied screws.
6. After the unit is assembled, apply power and make sure the unit functions properly.

![Figure 2. Detail of Pendant Mounting](image1)

![Figure 3. Detail of Ceiling Mounting](image2)

**WARNING**

To reduce the risk of ignition of hazardous atmospheres and shock, keep assembly tightly closed when circuits are energized.

To reduce the risk of ignition of hazardous atmospheres and shock, disconnect from the supply and circuit and allow five (5) minutes for stored energy to dissipate before disassembling the unit.
Figure 4. Detail of Wall Bracket Mounting

Figure 5. Detail of Stanchion Mounting

Figure 6. Disassembly of the EXS301 Hazard-Gard
### Table 1. EXS301 Hazard-Gard

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
<th>Electrical Ratings</th>
<th>Conduit Size</th>
<th>Flash Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Less</td>
<td>EXS301***/120</td>
<td>120V 50/60 Hz</td>
<td>N/A</td>
<td>Approx. 65 fpm</td>
</tr>
<tr>
<td>Housing Mounting Module</td>
<td>EV22</td>
<td>N/A</td>
<td>3/4&quot; NPT</td>
<td>N/A</td>
</tr>
<tr>
<td>Pendant Mounting Module</td>
<td>EVMP3</td>
<td>N/A</td>
<td>3/4&quot; NPT</td>
<td>N/A</td>
</tr>
<tr>
<td>Stanchion Mounting Module</td>
<td>EVMJ4</td>
<td>N/A</td>
<td>1 1/4&quot; NPT</td>
<td>N/A</td>
</tr>
<tr>
<td>Wall Bracket Mounting Elbow</td>
<td>EV87</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Letter in this position denotes color of the globe: A - amber, B - blue, C - clear, G - green, R - red or M - magenta

### Table 2. Ratings

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>40°C</td>
<td>75°C</td>
<td>T4 (135°C)</td>
<td>T6 (85°C)</td>
<td>T4A (120°C)</td>
<td>T4A (120°C)</td>
</tr>
<tr>
<td>55°C</td>
<td>90°C</td>
<td>T3C (160°C)</td>
<td>T6 (85°C)</td>
<td>T4 (135°C)</td>
<td>T4 (135°C)</td>
</tr>
<tr>
<td>65°C</td>
<td>105°C</td>
<td>T3C (160°C)</td>
<td>T6 (85°C)</td>
<td>T4 (135°C)</td>
<td>T4 (135°C)</td>
</tr>
</tbody>
</table>

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds “Terms and Conditions of Sale”, and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.
OFFSET SPEC
INSTALLATION INSTRUCTIONS FOR CROUSE-HINDS CATALOG SERIES EXS301 HAZARD
FOR USE IN HAZARDOUS LOCATIONS

NOTE: MECHANICALS HAVE ALREADY BEEN
REDUCED TO ACTUAL SIZE.

CHARACTERS: TO BE BLACK ON WHITE BACK.

MATERIAL: STANDARD WHITE OFFSET STOCK
WITH PART NUMBER ON THE OUTSIDE.

(1) 11" X 17" SHEET PRINTED BOTH SIDES. FOLD
THREE TIMES TO DIMENSIONS SHOWN ON DETAIL.

P/N 3100906 (IF 1486) OFFSET SPEC