INSTALLATION INSTRUCTIONS FOR THE DLX LED EXPLOSION-PROOF LIGHT

READ ALL INSTRUCTIONS.

THESE INSTRUCTIONS INCLUDE INFORMATION FOR INSTALLATIONS IN BOTH HAZARDOUS LOCATIONS AND MARINE LOCATIONS. MANY SECTIONS APPLY TO BOTH APPLICATIONS. BE SURE TO FOLLOW THE APPROPRIATE WARNING AND SPECIAL INSTRUCTIONS SPECIFIC TO EACH APPLICATION. ONLY FIXTURES MARKED “ELECTRIC FIXTURES FOR HAZARDOUS LOCATIONS” ARE SUITABLE FOR INSTALLATION IN HAZARDOUS LOCATIONS.

ALL WIRING SHOULD BE DONE BY LICENSED ELECTRICIANS IN ACCORDANCE WITH STATE AND LOCAL CODES PLUS NATIONAL ELECTRICAL CODE (NEC) STANDARDS. IMPROPER INSTALLATION MAY RESULT IN SERIOUS INJURY. USE ONLY UL LISTED COMPONENTS SUITABLE FOR CLASS I, DIVISION 1, GROUPS C AND D AND CLASS II, DIVISION 1, GROUPS F AND G INSTALLATION. THEY CAN BE OBTAINED FROM A LOCAL DISTRIBUTOR.

GENERAL INFORMATION
Phoenix explosion-proof fixtures meet the requirements of UL Standard 1598, 1598A, 844 and CSA Standard C22.2, No.250, 94.0, 213.0, 137.0, 30.0 regarding electric luminaires for use in Class I, Div. 1, Groups C & D; Class I, Div. 2, Groups A, B, C, D; Class II, Div. 1, Groups F & G; Class II, Div. 2, Groups F & G; and Class III, Div. 1 & 2. For marine applications, installation must be in accordance with USCG 46 CFR parts 110 through 113.

MOUNTING AND WIRING
This fixture is designed for wall or post mounting and requires a flat vertical surface 3.0 in (7.6 cm) wide by 40.0 in (101.6 cm) high. The fixture is supplied with 72.0 in (183.0 cm) of 16 gauge wire for connecting at the wall mounted switch or junction box through 1/2" size flexible coupling. The wire entrance to the light head is factory sealed. Wiring must comply with Class I Division 1 (paragraph 501-4) and Class II Division 1 (paragraph 502-4) wiring methods defined in “National Electric Code (NEC) 1984.” Flexible coupling, junction box, and any other part required to complete wiring aren’t furnished with the fixture. These items may be purchased from a local electrical distributor. (Refer to Table 1 on page 2 for a description of acceptable components).

FIXTURE INSTALLATION
1. Locate fixture at desired height on wall or other permanent support. Fasten wall mounting plate with four 3/8" (1.0 cm) bolts. (These are not furnished.) If it is necessary to mount light head in the alternate mounting position (Figure 2 on page 2), (a) remove the friction joint hardware; (b) rotate the head with attached bracket 90°; and (c) reinsert friction joint hardware and tighten to obtain desired movement.

2. Locate power supply junction box or switch 28.8 in (73.0 cm) from the fixture arm as shown in Figure 2. It is important to place the power supply junction box in line with the fixture arm’s axis of rotation in order to minimize the amount of bending to the flexible coupling. Proper installation will ensure a minimum bend radius of 10 in (25.4 cm) on the flexible coupling.

3. Attach 45° elbow and 1/2" size close nipple to sealed fitting and tighten. The open end of the elbow must be directed at the fixture wall mount after tightening.

4. Assemble flexible coupling, two close nipples, expansion union, and junction box. Route wiring as shown in Figure 2.

   NOTE
   All threaded connections must engage five full threads.

5. Avoid placing fixture in a position that would (a) trap the flexible coupling; or (b) cause the flexible coupling to form less than a 10 in (25.4 cm) bending radius.

AIMING
Aiming along a horizontal plane (azimuth) is accomplished by swinging the wall mounted arm 180° to the desired direction, and/or by rotating the fixture head 230° to the desired direction. The fixture head can be aimed vertically 74° (arc), 14° above, and 60° below the horizontal.

   NOTE
   The fixture head movement is limited to prevent bending the 1/2" size flexible coupling beyond its recommended 10 in (25.4 cm) minimum bending radius.

DISCONNECT POWER BEFORE OPENING THE FIXTURE.

REMOVAL OF COVER
In most cases, a rectangular steel bar about 3/4 in (1.9 cm) x 1/2 in (1.3 cm) x approximately 30.0 in (76.2 cm), can be placed between the lugs provided on the face of the cover and rotated counter-clockwise to accomplish the removal. See Figure 1 below. Excessive force must not be used as the bar may slip and cause injury.
REPLACEMENT OF COVER
Before replacing the cover, thoroughly clean the threads in both the cover and shell, and liberally lubricate the threads with a non-drying grease or petrolatum. This will enable the cover to be turned more easily and will facilitate its removal later.

Thread the cover onto the shell by hand until the cover contacts the shell o-ring. Use the rectangular steel bar to rotate the cover another 1/12th to 1/10th of a turn or between 2.5 in (6.4 cm) and 3 in (7.6 cm) measured on the outside diameter.

COVER GLASS REPLACEMENT
If the Cover Glass (Item 3 on page 3) is to be replaced, first loosen the Retaining Ring by turning it counter-clockwise with a hammer and drift punch applied to the lugs on the ring. Once loose, it may be rotated out by hand. Remove the Cover Glass and Cover o-ring. Replace these parts.

The threads in the Cover, Retaining Ring and Shell should be thoroughly cleaned and liberally lubricated with a non-drying grease or petrolatum to facilitate assembly and disassembly and to inhibit corrosion. After replacement of the Cover, o-ring and Cover Glass, the Retaining Ring must be tightened against the glass with the hammer and the drift punch until the clearance between the Cover Glass and the Cover is such that a .0015 in (.004 cm) feeler will not enter the joint more than 1/8 (.3 cm) at any point, as shown in Figure 3.

FRICION JOINT FEATURE
The Friction Joint (See Figure 2) permits hand adjustment of the light head. If the friction joint loosens, tighten the locknut part of the joint to restore original tension. Do not lubricate the friction joint.

### Table 1

<table>
<thead>
<tr>
<th>Item in Fig. 2</th>
<th>Acceptable Components - UL Listed for Wiring Fixtures in Class I, Division 1, Groups C and D and Class II, Division 1, Groups F and G Installations</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1/2&quot; size diameter flexible coupling, 36.0&quot; (91.4 cm) long with two removable close nipples</td>
</tr>
<tr>
<td>B</td>
<td>1/2&quot; size diameter male expansion union - standard length</td>
</tr>
<tr>
<td>C</td>
<td>45° elbow for 1/2&quot; size conduit</td>
</tr>
<tr>
<td>D</td>
<td>1/2&quot; close nipple</td>
</tr>
</tbody>
</table>

All wiring should be done by licensed electricians in accordance with state and local codes plus National Electrical Code (NEC) standards. Improper installation may result in serious injury. Use only UL listed components suitable for Class I, Division 1, Groups C and D and Class II, Division 1, Groups F and G installation. They can be obtained from a local distributor.

NOTE:
Mounting dimension from bottom surface of mounting arm to top outlet box must be held to maintain a minimum bending radius of 10 in (25.4 cm) on the flexible coupling.

N5611015A-2
### DLX LED REPAIR PARTS

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED MODULE - FLOOD OPTIC</td>
<td>1804100</td>
</tr>
<tr>
<td></td>
<td>LED MODULE - SPOT OPTIC</td>
<td>1804101</td>
</tr>
<tr>
<td>2</td>
<td>GASKET</td>
<td>5002203</td>
</tr>
<tr>
<td>3</td>
<td>LENS ASSEMBLY</td>
<td>CONTACT FACTORY</td>
</tr>
<tr>
<td>4</td>
<td>DRIVER</td>
<td>4380002</td>
</tr>
</tbody>
</table>

**WARRANTY**


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Phoenix Products has taken reasonable steps to ensure that the information contained herein is accurate. While we believe the information is accurate, no warranty is made or implied. Product design and specifications are subject to change without notice.