EVLA Lighting Fixture
EVLA12-GB

APPLICATION
The EVLA12-GB lighting fixture is a factory sealed assembly, housing a single halogen lamp/reflector light source. Lamp is included with fixture.

RATINGS
EVLA12-GB Lighting Fixture
Input 12VDC
Ambient Temperature 55°C maximum
Operating Temperature Codes Class I T4A
Class II, III  T3B

INSTALLATION
Remote EVLA fixtures must be mounted in a suitable splice box, that provides a 1" hub for fixture attachment.

IMPORTANT
Spacers may be required between splice box and mounting surface to maintain minimum dimension of 1 1/4" between center line of mounting hub and mounting surface.

WARNING
Electrical power must be turned OFF before and during installation and maintenance.

1. Use 3/32" hex wrench. Loosen two support arm locking screws so that mounting hub rotates freely. Retract mounting hub locking screws fully into hub body. See Figure 1.

2. Thread mounting hub into splice box, securely tighten by applying wrench to hex hub. Hex hub must be within 1/4" of splice body or hub for proper installation. Securely tighten three (3) mounting hub locking screws with 3/32" hex wrench.

3. Adjust Fixture support arm to desired position and retighten two (2) support arm locking screws. Adjust fixture to desired position then tighten fixture locking screw. See Figure 1.

4. Refer to Table 1 for wiring for remote fixtures.

WARNING
1. Hazardous location information specifying Class and Group is marked on nameplate of lighting fixture.
2. Explosionproof enclosure lighting fixtures is assembled to, must have conduit sealing fittings 1 1/4" from enclosure at each conduit entrance to enclosure.
3. Explosionproof enclosure unused conduit opening, must be plugged so that five (5) full threads minimum are engaged.

5. Make all wiring connections following Wiring Diagram located on power supply, and NEC® and local codes.

FIXTURE LAMP REPLACEMENT

CAUTION
Halogen-cycle lamp is pressurized and may shatter if mishandled. Protect lamp against scratches and abrasions. Wear protective eyeglasses and clothing when handling lamp. Always allow lamp to cool before removing. Dispose of lamp properly.

1. Electrical power (AC & DC) must be turned OFF before and during maintenance.

2. Loosen lens ring hex locking screw (but do not remove). See Figure 2.

3. Remove lens ring by turning counter-clockwise until all threads are disengaged.

4. Pull lamp straight out of socket and discard.

5. Install replacement lamp, making sure that lamp is free of all fingerprints and soil.

Fixture Lamp: No. 783, Miniature, Tungsten-Halogen, G4, 2-pin, 12 watt.*

*NOTE: 14 watt lamp of same type is permissible, however, total rating of emergency lighting system power supply is 30 watts and total combined load of multiple EVLA12 lighting fixtures cannot exceed this rating.

* National Electrical Code is a registered trademark of the National Fire Protection Association
6. Install lens ring by turning clockwise until threads are fully engaged, making sure that lens ring tabs clear locking screw.

All screw threads have been treated with a corrosion-resistant lubricant which penetrates the metal. Whenever disturbing threaded joints, relubricate the threads with Crouse-Hinds STL thread lubricant.

7. Tighten locking screw between lens ring locking tabs.

8. Turn on electrical power.

**CAUTION**

During installation, exercise care to prevent grit, dirt or other foreign material from lodging on threads. If such foreign material does settle on these threads, clean them with kerosene or Stoddard solvent**, then relubricate with STL thread lubricant.

**To avoid the possibilities of an explosion, oxidation and corrosion, do not use gasoline or similar solvents.

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Table 1.

**Wire Sizing for Remote Installation**

*(For Copper Wire)*

<table>
<thead>
<tr>
<th>Ambient Temp. °C</th>
<th>25</th>
<th>40</th>
<th>55</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lighting Fixture Load-Max. Watts</strong></td>
<td>12</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>14 AWG</td>
<td>125</td>
<td>63</td>
<td>50</td>
</tr>
<tr>
<td>12 AWG</td>
<td>198</td>
<td>99</td>
<td>79</td>
</tr>
<tr>
<td>10 AWG</td>
<td>317</td>
<td>158</td>
<td>127</td>
</tr>
<tr>
<td>8 AWG</td>
<td>505</td>
<td>253</td>
<td>202</td>
</tr>
</tbody>
</table>

*Maximum distance to limit line voltage drop to 5%.

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