Hazardous Location Light

EXI Class 1 Division 1 LED
Product Description

Explosion Proof I Series Linear LED- UL1598, UL1598A, UL924, UL844 approved. Hydrogen or gas approved LED surface or pendant mounted light fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaire. LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. This series achieve Class I Division 1, Groups C, D; Class I Division 2, Groups A, B, C, D; Class II Division 1 Group E, F, G. Class III.

The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 50000 hours rated life span with 80% lumen retention. Light weight and a low profile make this unit an attractive alternative to larger and heavier older fixtures and requires less hard ware to install. This light is multi-voltage capable and can be operated with 100-277/200-480 VAC, 50/60Hz without any need for a special ballast. The aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and life span of the LED luminaires. The max LED lamp produces 80 watts and 11,200 lumens with a color temperature of 2,700-6,500K and a color rendering index of 70 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaire.

Explosion proof light can be surface and pendant mounted by bringing down a rigid conduit to the light fixture. Mounting Options Note: Pendant mounting option requires conduit be supplied by the installer.
Applications

This luminaire can be used as spot light, down light and tunnel light which can provide general illumination in hazardous locations, such as:

- Refinery factory
- Oil and gasoline loading dock
- Gas station
- Painting manufacture workshop
- Pumping station
- Metal Smelting Plant
- Mining
- Ocean platform
- Aerospace
- Chemical plant
- Vessel
- Military
- Flour mill
- Distillerie
- Power station
- Other high humidity, high temperature, dusty location...

Features

- High efficacy: up to 140lm/W
- CRI>70
- Surface mounting and pendant installation
- Wide and narrow optics for uniform illumination
- Copper free aluminum
- High vibration resistance

Ratings and Certifications

- NEMA 4X, IP66
- UL1598/UL1598A/UL844
- CSA C22.2 No.137/No.250.0
  - Class I, Division 1, Groups C,D
  - Class I, Division 2, Groups A,B,C,D
  - Class II, Division 1, Groups E,F,G
  - Class II, Division 2, Groups E,F,G
  - Class III
- Marine and Wet Locations
- IECEX
- ATEX
- 5 years or other warranty period specified in agreement
- L70 rating for more than 150000 hours
Typical Model Specification

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Wattage</th>
<th>Color</th>
<th>Voltage</th>
<th>Lumens</th>
<th>Working Hours</th>
<th>CRI</th>
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</thead>
<tbody>
<tr>
<td>EX-30W I2YZDA</td>
<td>30</td>
<td>4000K-5700K</td>
<td>AC100-277V or AC200-480V</td>
<td>4200</td>
<td>5 years</td>
<td>70</td>
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<tr>
<td>EX-40W I2YZDA</td>
<td>40</td>
<td>4000K-5700K</td>
<td>AC100-277V or AC200-480AC</td>
<td>5600</td>
<td>5 years</td>
<td>70</td>
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<tr>
<td>EX-50W I2YZDA</td>
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<td>4000K-5700K</td>
<td>100-277V or AC200-480VAC</td>
<td>7000</td>
<td>5 years</td>
<td>70</td>
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<tr>
<td>EX-60W I2YZDA</td>
<td>60</td>
<td>4000K-5700K</td>
<td>100-277V or AC200-480V</td>
<td>8400</td>
<td>5 years</td>
<td>70</td>
</tr>
<tr>
<td>EX-60W I4YZDA</td>
<td>60</td>
<td>4000K-5700K</td>
<td>AC100-277V or AC200-480V</td>
<td>8400</td>
<td>5 years</td>
<td>70</td>
</tr>
<tr>
<td>EX-80W I4YZDA</td>
<td>80</td>
<td>4000K-5700K</td>
<td>AC100-277V or AC200-480V</td>
<td>11200</td>
<td>5 years</td>
<td>70</td>
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</tbody>
</table>

"I"=Product series  "Y"=D or N: Dimmable or non-dimmable  "Z"= CCT, from 4000-5700K  "D"=Beam angle: 120°

Mechanical Information

<table>
<thead>
<tr>
<th></th>
<th>Size (in)</th>
<th>Size (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC100-277V models</td>
<td>24x5.5x8.1</td>
<td>47x5.5x8.1</td>
</tr>
<tr>
<td>AC200-480V models</td>
<td>24x5.5x8.1</td>
<td>47x5.5x8.1</td>
</tr>
</tbody>
</table>

Structure Diagram
The unique light distribution design, light type and angle precision control of the LED light source, to avoid light pollution and ineffective utilization of light; soft light, no glare, will not cause eye fatigue of workers, improve working efficiency.

**Professional Light Distribution**

*Light Distribution Pattern*

- **Light intensity curve (120W)**
- **Plane illuminance curve**
**Mounting Method**

Explosion proof light can be surface and pendant mounted by bringing down a rigid conduit to the light fixture.

Mounting Option Note:
Pendant mounting option requires conduit be supplied by the installer.

**Rectangle luminaire mounting**

- Suspend Mount
- Pole Pendant Mount
- Trunnion Mount
- Ceiling Mounting
- Wall Mounting