

EXPSG-120-100W

Explosion Proof Sight Glass Light - 100 Watt - 120 Volt or 220/240 Volt

Product ID: 45298

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EXPSG-120-100W

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

Made in the USA

Explosion-Proof Small Format Light - UL 844 Listed Class I, Division 1&2, Groups C&D for fitting to sight/light ports and specific area lighting. Approved for wet conditions (UL 1571)

This compact, powerful light can be used in small spaces where operators need Class 1 Division 1 or Class 1 Division 2 lighting.

The EXPSG-120-100W is excellent for specific area lighting such as instruments, control panels, valve manifolds, walkways, etc. These sturdy lights are constructed of corrosion-resistant aluminum alloy and are moisture-proof as well as explosion-proof (hazardous locations) so they are equally well suited for use in demanding installations indoors and out. Both spot and flood lamp configurations are available for particular applications.

[Click here to see the Low Voltage LED version of this light.](#)

Sight Glass Styles

This light is designed to give glare-free illumination in combination with the following sight glass styles:

- bolt-on circular flanges
- circular weld pad
- visual flow indicators (standard or full-view)
- sanitary clamp connection larger than 3"
- circular threaded assemblies (type MV) larger than 4"
- specific area lighting

UL Hazardous Location Ratings

UL 844 listed for Class I, Division 1 & 2, Groups C and D.

Approved for wet conditions, UL 1571

[Click here to learn more about National Electrical Code Hazardous Location Classifications](#)

Temperature Operating Conditions

Temperature range (operating temperature) is referenced to 40°C ambient.

Lamp - 100W Spot halogen lamp with bayonet base and separate reflector.

Lamp Socket - BA 15d Bayonet



[Click Photo to Enlarge](#)

Mounting Brackets

Straight mounting brackets are for use on single sight ports from 3" to 6". Angle (offset) brackets are available for 6" and larger for single light/sight port combinations. Brackets are adaptable to various types of mounting configurations for area lighting.

Installation Instructions

General (See detailed instruction manual)

The light is usually bolted by twin brackets to the sight glass assembly, i.e. to the cover flange of a bolt-on circular sight glass, circular weld-on assembly (type DN28120), visual flow indicator, or mounted for area illumination.

Can be used for the following sight glass sizes and larger:

Bolt-on circular sight window, 2"

Circular weld-on sight window, 3"

Visual flow indicator, 2"

Weld-neck type MV, DN80

Also available are sanitary clamp connections for sizes 1" and larger

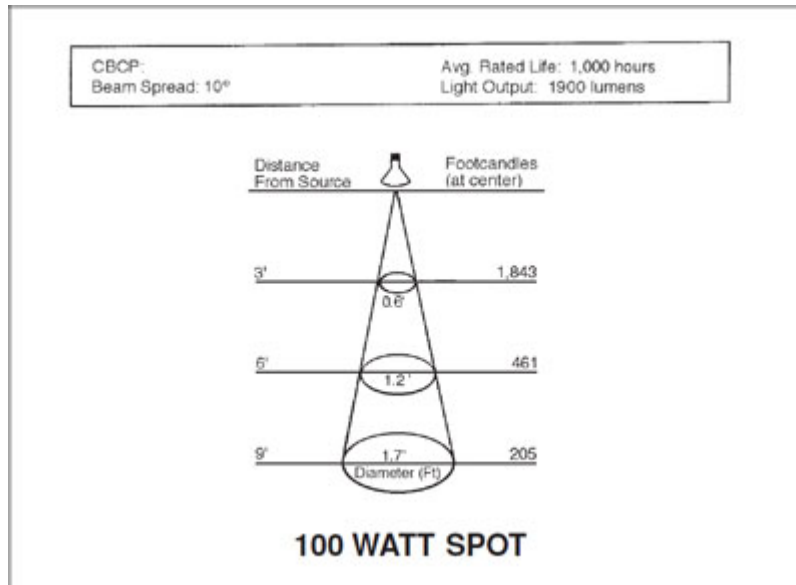
Electrical Connection Installation

1. Disconnect main power supply
2. Remove side entrance cover
3. Attach power leads to terminal block
4. Replace cover insuring gasket (o-ring) is in place. Tighten.
5. Connect power

Connections to be in accordance with National Electric Code® Requirements

Lamp Replacement

1. Switch off the light and disconnect power
2. Remove top cover
3. Loosen socket bracket. Removal of the screw is not necessary
4. Remove lamp socket bracket assembly
5. Replace bulb. Use only approved bulb (table 1)
6. Replace lamp socket bracket assembly
7. Tighten bracket screw
8. Reinstall top cover insuring cover gasket (o-ring) is in place. Tighten.
9. Connect power supply



Parts, Construction and Materials:

- Luminaire body: Corrosion resistant die cast aluminum, G-Al Si 10 Mg
- Lens Holder: Unit of aluminum ring, glass
- Brackets: Die cast Aluminum, G-Al Si 10 Mg
- Weight: 7 lb. (3.2 Kg)
- Gaskets: Silicone rubber o-rings



Frequently Asked Questions (FAQ)

There are no Fags



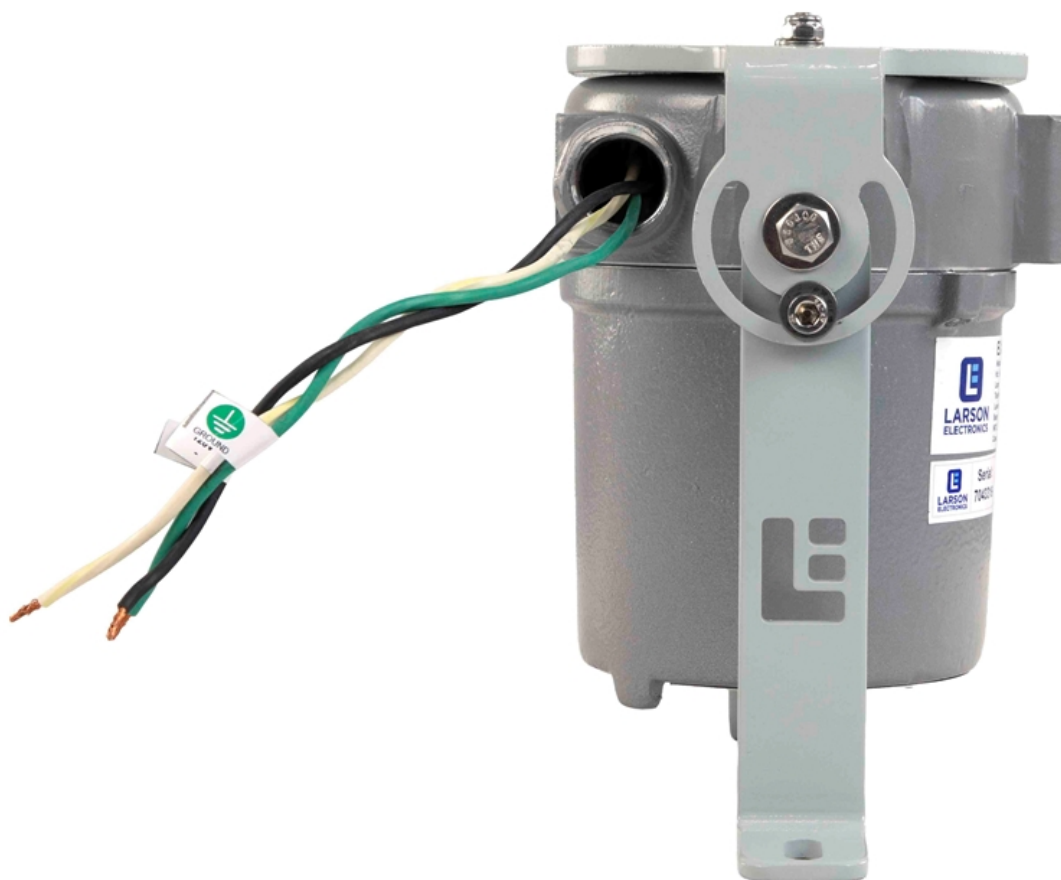


Image: EXPSG-120-100W small explosion proof light



Image: EXPSG-120-100W

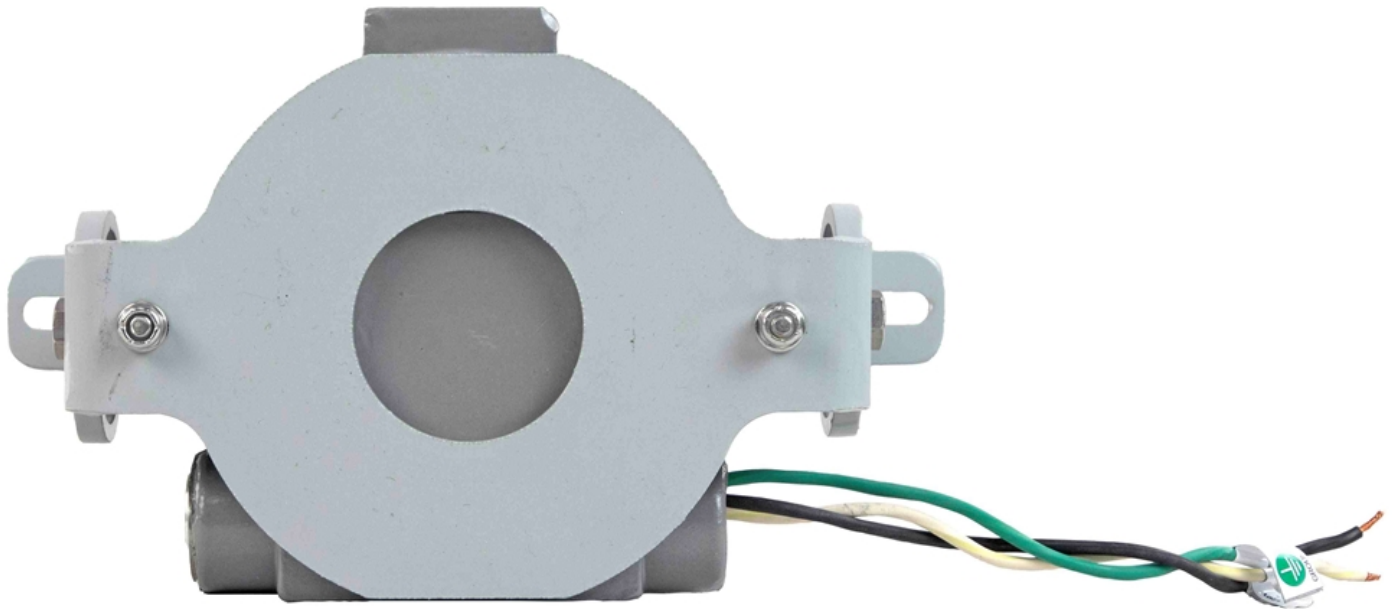


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Export Control Classification Number (ECCN): EAR99

Options:

EXPSG-120-100W-Wattage-Voltage

Example: EXPSG-120-100W-100W-120VAC

Wattage		Voltage	
100 WATT	-100W	120V AC	-120VAC
50 WATT	-50W	220V AC	-220VAC
		240V AC	-240VAC

Links (Click on the below items to view):

- **Dimensional Drawing 2D**(<https://www.larsonelectronics.com/images/product/DimensionalDrawing/45298.PDF>)
- **Operations Manual**(<https://www.larsonelectronics.com/images/product/Manual/45298.PDF>)
- **Solidworks EASM File**(<https://www.larsonelectronics.com/images/product/Easm/45298.ZIP>)
- **STEP File (3D CAD Model)**(<https://www.larsonelectronics.com/images/product/Step/45298.ZIP>)
- **Wiring Diagram**(<https://www.larsonelectronics.com/images/product/WiringDiagram/45298.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/45298.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/45298.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/45298.JPG>)
- **HigResPic4**(<https://www.larsonelectronics.com/images/product/HigResPic4/45298.JPG>)
- **HigResPic5**(<https://www.larsonelectronics.com/images/product/HigResPic5/45298.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=c0YN-9cBQNI>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map**(<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)