

Technical Bulletin Details Powerful UL Listed, Ex-Rated Illumination Source

lumiglas

Lumiglas Explosion-Proof Light Model USL 08-EX
UL 844 Listed Class I, Div. 1 & 2, Groups C & D
For fitting to sight/light ports and specific area lighting
Approved for wet conditions (UL 1571)

Application
This compact, powerful light can be used for integral light/sight port (single port version) or separate light and sight port (dual port version) and also to illuminate the interiors of visual flow indicators, pipelines, laboratory mixers and other vessels and reactors which are normally closed.
The USL 08-EX is excellent for specific area lighting such as instrument, control panels, valve manifolds, walkways, etc. These sturdy lights are constructed of corrosion-resistant aluminum alloy and are moistureproof as well as explosionproof (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.

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 connections larger than 3"
- circular threaded assemblies (type MV) larger than 4"
- specific area lighting

Protection
UL 844 listed for Class I, Div 1 & 2, Groups C&D.
Approved for wet conditions, UL 1571

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

Lamp
Medium base 35W Spot, 35W Flood, 50W Spot & 50W Flood with built-in reflector, or 100W Spot halogen lamp with bayonet base and separate reflector. See table 1 for part number.

Lamp Socket
E26 screwed and BA 15d Bayonet depending on wattage.

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.

Exclusively Stocked and Distributed by
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lumiglas USL 08-EX with mounting brackets

lumiglas USL 08-EX installed on a circular sight port DIN 28120

UL **UL**

The powerful, compact USL 08-EX Lumiglas® explosion-proof lights are described in a four-page technical bulletin from L.J. Star Incorporated. These rugged lights are UL UL 844 listed, Class I, Div 1 & 2, Groups C & D. The lights are also approved for wet conditions under UL 1571 and are available with a sanitary clamp connection.

USL 08-EX lights are designed to provide illuminated interior viewing of reactors, fermenters, mixers, pipelines, flow indicators and other normally closed vessels, and also for specific-area lighting such as instrumentation, control panels, valve manifolds, walkways, etc. Both single-port models for combined light/sight ports and dual-port models for separate light - and sight-ports are available for either standard or sanitary vessel interior illumination applications. They are applicable to ports 3 inches in diameter or larger.

The new bulletin includes detailed descriptions and photos as well as applications suggestions and complete engineering specifications. The dimensional drawings provided include a cutaway drawing that shows the internal construction and the sealing arrangements employed.

Tabular data includes electrical specifications on the three lamp options offered, 35 and 50 watts ratings in either flood or spot configurations, plus a 100 watt spotlight design. Also included among the

technical data are instructions for installation, for lamp replacement and a list of materials specifications.

Of special value to engineers evaluating the new lights for any particular application are a series of charts that describe both the beam-spread and the intensity of the light generated by the USL 08-EX with each of the three standard lamps installed. The 35 and 50 watt lamps are rated at 400 and 525 lumens respectively, and have an average rated life of 2500 hours. The 100 watt lamp has a powerful output of 1,900 lumens, or 461 foot candles at 6 feet.

To order your copy of Data Sheet USL 08-EX, contact L.J. Star Incorporated,
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