

LumiStar365UV™ LED Luminaire Series USL13/33 Stainless Steel

ISO 9001
DATA SHEET 02-0195 05/17

The world's brightest compact sight glass UV-LED luminaire:

The LumiStar365UV luminaire is capable of providing ASME BPE standard UV output with a fraction of the size and power needs, offering unprecedented UV-LED illumination.

The advantages of LumiStar365UV LED technology:

- Ultra-bright UV LED provides 4.6 Watts of 365nm UV light.
- Internal reflector provides an ASME compliant 5mW/cm² at 15 inches; 365nm UV intensity
- Filtered light ensures a tight spectrum of emitted UV light and eliminates all emitted visible light, unlike mercury bulbs for easier identification of UV fluorescents.
- Safer alternative and easier disposal than mercury bulbs (RoHS compliant)
- Capable of continuous operation
- Cool operation with temperature-based current limiting and automatic dimming with over temperature shutdown
- LEDs have long service life and are vibration and impact resistant
- No IR heat radiation emitted into process vessel (cold light output)

Applications:

Mounts on a sight glass fitting or fixture and can be used in common UV applications such as riboflavin testing. For use in **non-hazardous locations only**.

- Brightly fluoresces process vessels for UV inspections
- Rapid, high intensity UV curing
- Verify conformal coatings
- Fluorescent UV dye penetrant inspection
- Forensic investigations including use of Luminol
- Currency and document verification
- Gem detection and identification (diamond fluorescence)

Fits the following sight glass sizes:

- Circular Weld-On Sight Glass fitting to DIN 28120: from Size DN 40 (2" view diameter)
- Circular ANSI Bolt-On Sight window: from size 1"
- Visual Flow Indicators: from size 1"
- Circular Weld-Neck Sight Glass fitting series MV: from DN 50
- Sanitary Clamp Connection Series MetaClamp: from 1"

Protection:

- Dust and waterjet tight to NEMA 4 & 4X
- Dust and waterjet tight to IP 65 to DIN EN 60529/DIN VDE 0470 Part 1

Operating conditions:

Independent of internal pressure/vacuum in the vessel, standard LumiStar365UV luminaires are approved for use in ambient temperatures from -20°C up to +80°C at the cable entry gland. **Under no circumstances should these luminaires be used for sealing vessel openings - an appropriate sight glass fitting must be used at all times.**

Electrical data:

This LumiStar365UV luminaire is equipped with a factory light mounted cable gland or 5-pin M12 connector. Supplied with a 3 meter power cable, other lengths available.

Operating voltage:

- Low Voltage: 12-24V (AC or DC)
- High Voltage: 110-240V AC



LumiStar365UV Luminaire Series USL33 for MetaClamp® Sanitary Clamp Connection



LumiStar365UV Luminaire Series USL13 with Mounting Bracket



Operation:

- Smart design with four modes of operation: flashlight mode (momentary), timed mode, continuous mode, and dimmer mode
- Factory-programmable options include: timer duration, initial brightness, and LED on at power up
- Remote switch available with optional wireless switch