

Lumistar Luminaire REL 01/REL 01-Ex, Stainless Steel

II 2G Ex ia IIC T4/T5/T6 Gb
I M2 Ex ia I Mb

- For mounting on rectangular sight glass units.

The REL 01 is a sight glass luminaire that has been specifically designed for attaching onto the side of rectangular sight glass units to achieve a combined sight and light port, enabling the convenient observation of filling levels. Lumiglas supply this stainless steel luminaire in two versions for use in potentially explosive environments and for normal operating conditions.

The Lumistar luminaire REL 01/REL 01-Ex is a complete unit ready for fitting. It is attached directly to the cover flange of a rectangular sight glass unit by means of two screws.

- **Compact design, high light output, low energy consumption:** 21 special LEDs ensure dazzle-free illumination. Together with the corresponding electronic switchgear, these LED are resin-cast into the **stainless steel housing** which is then secured to the rectangular fitting.

The service life of this luminaire is virtually unlimited; even if one of the diodes fails after a long period of operation, the remaining LED still provide more than enough light intensity.

- **Application:**

Designed for use with rectangular / longitudinal sight glass units installed in bioreactors, laboratory mixers, filters and, generally, all normally closed tanks, agitators, separators, pipelines and other vessels operated in explosion-hazardous environments (Zones 1 and 2) as well as in non-hazardous work areas.

- **Suitable for use in the food processing sector**

- **Type of protection:**

Provided the luminaire has been properly installed, it is dust- and splash-proof, IP65 acc. to DIN EN 60529/DIN VDE 0470 Part 1.

- **Operating conditions:**

- Independent of the internal pressure/vacuum in the vessel.
- Maximum admissible ambient temperature 80°C when used in non-hazardous environments.
- When installed in Ex-rated areas, the maximum ambient temperature is between -5°C and +60°C

- **Certification**

EC Type-Examination Certificate DMT 02 ATEX E 234 X

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- **Technical data Ex protection:**

- These luminaires meet the essential safety and health regulations by complying with the directives:
- EN 60079-0: 2012 + A11: 2013 General Requirements
- EN 60079-11: 2012 Intrinsic Safety 'i'
- Explosion group: IIC (includes IIA and IIB)
- Temperature classes: up to T6 (depending on power)

CE 0158

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Lumistar luminaire REL 01, attached to the cover flange of a rectangular sight glass unit, side view

