



## REL 01 LED-Ex Projector

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

### REL 01/REL 01-Ex Projector

- **Mounting and Compatibility:**

Securing the rectangular sight glass flange with two provided M4 screws.  
Compatible with: bioreactors, mixers, filters, tanks, agitators, separators, and piping.  
ATEX zones 1 and 2

- **Features:**

Compact design, high luminous intensity, low energy consumption  
21 LEDs for glare-free illumination  
Stainless steel casing with resin-encased components  
Extended lifespan

- **Fixation:**

Integrated support plate featuring oblong holes (60 mm) with M4 screws and washers included. Optional reflective plate available. Can be installed on extended sight glass.

- **Materials:**

Body and fastening: Stainless steel 1.4301



### Protection and Certifications

- **Protection index:**

IP65 (dust and splash resistant) in accordance with DIN EN 60529/DIN VDE 0470 Part 1.

- **Terms of Service:**

Independent of the internal pressure or vacuum within the tank.  
Maximum ambient temperature: 80°C in a non-hazardous environment.  
In ATEX zones: Operating temperature ranges from -5°C to +60°C.

- **Certification:**

EC Type-Examination Certificate DMT 02 ATEX E 234 X II 2G Ex ia IIC T4/T5/T6 Gb I M2 Ex ia I Mb

- **Protection Example:**

Complies with EN 60079-0:2012 + A11:2013 (general requirements) and EN 60079-11:2012 (intrinsic safety 'i').  
Explosion group: IIC (which encompasses IIA and IIB).  
Temperature classifications: up to T6 (contingent upon power).

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## Electrical specifications and components:

- Tension: Alternating Current or Direct Current
- Operating voltage: 24 volts
- Maximum consumption: 2 W
- Connection cable provided: 3 m, 3 x 0.75 mm<sup>2</sup>, heat resistant (-10°C to +90°C).

## Electrical specifications for ATEX zones:

- Operates with serial control devices (safety barriers, binary outputs, power supplies).
- Power supply circuitry:

Tension maximum: 30 V AC/DC

Maximum current: 250 mA

Internal capacitance and inductance: minimal

## Special installation requirements:

Permissible ambient temperature: -5°C to +60°C. Installation within an enclosure offering a minimum protection rating of IP20 (EN 60529).

Adherence to EN 60079-11 standards regarding internal wiring and insulation of intrinsically safe circuits.

Required safety zones:

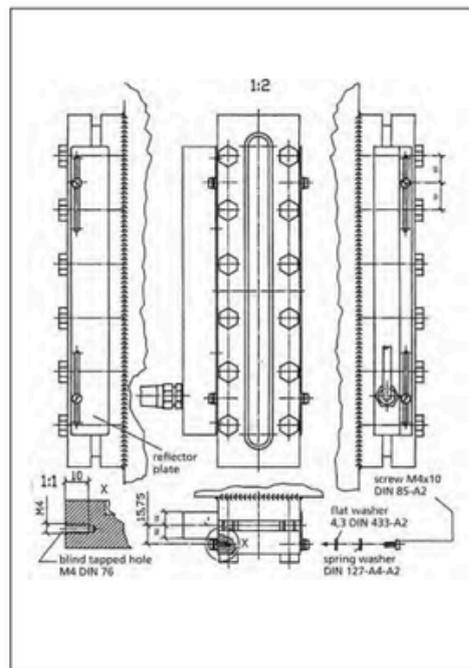
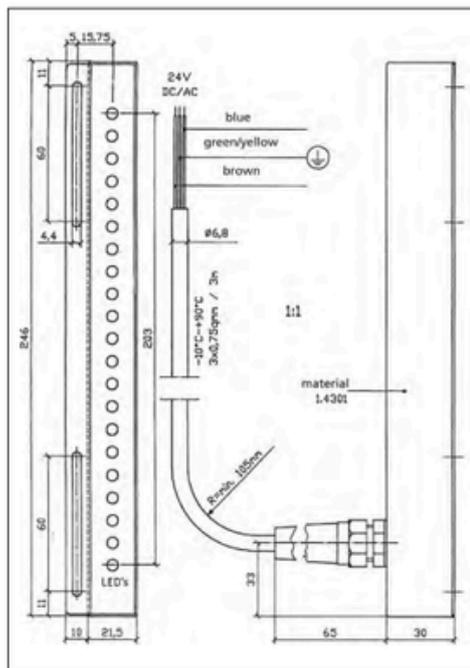
A 3 mm air gap exists between the intrinsic safety circuit and the metallic components of the enclosure.

A distance of 50 mm between unprotected components, or separation by an insulating wall in accordance with EN 60079-11.

## Temperature classifications based on ambient temperature:

Temperature classification	Maximum ambient temperature.	Maximum consumption.
T1 to T4	60°C	2.0 W
T5	60°C	1.5 W
T6	40°C	1.0 W

## Dimensions:



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