

Luminance Sensor LUCI L20



L₂₀- luminance sensors measure the average luminance of the tunnel surroundings from the stopping sight distance and use it as the setpoint for lighting control.

LUCI L20

With the adjustable field-of-view angle (13–30°), the measuring field can be precisely adapted on site to the installation locations, which may also be outside the stopping sight distance.

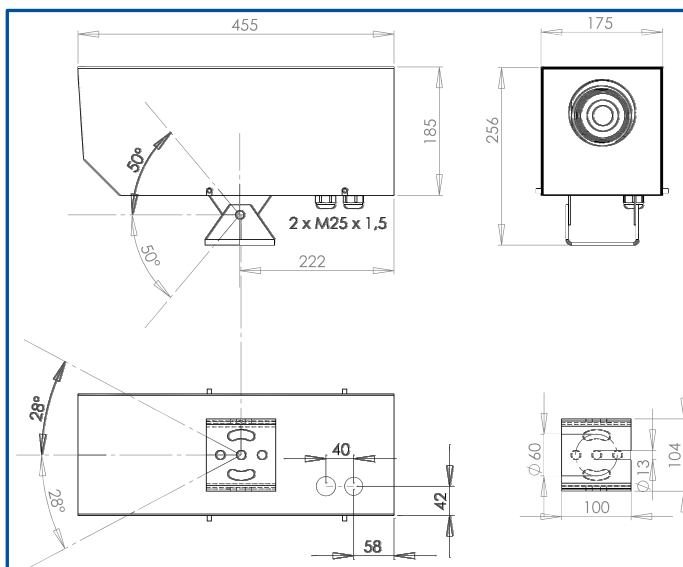
Mounting brackets for pole mounting (TRALUCI/EM) and wall mounting (TRALUCI/CE) are available as accessories in stainless steel 1.4571 (V4A).

As standard, the TRALUCI/EM mounting brackets can be supplied with retaining clamps and fastening sets for different pole diameters ranging from 80 to 140 mm. Custom sizes are available on request.



- Sensors for measuring the luminance of the tunnel surroundings
- Measuring method: integral luminance according to CIE-L20 or RABT (EABT) / DIN 67524
- Long-term stable amplifier with high reliability
- Vario optics for field-of-view adjustment
- Precise adaptation to the spectral sensitivity of the human eye, $V(\lambda)$
- Electronically controlled heating to prevent icing
- The front glass is effectively protected against contamination by a special aperture ring using the stagnation effect
- Fault signal output via potential-free contact for collective alarms in the event of temperature or signal faults
- Up to two separate measuring channels with independent measuring ranges, e.g. 0...1.000 and 0...10.000 cd/m^2

TECHNICAL DATA:



- Power supply: 230 V AC $\pm 10\%$, 45...63 Hz, 50 VA
- Measuring method: L20-CIE, RABT (EABT) and DIN 67524
- Measuring range: 0...10,000 cd/m^2 , up to 2 measuring channels
- Field of view: 13...30°, variably adjustable on site
- Output: 4...20 mA / max. load 250 Ω
- Interference protection: fine-wire fuses, varistor, suppressor diode
- Connection: maintenance-free spring-loaded terminals 0.5...2.5 mm²
- Housing: stainless steel 1.4571 (V4A), double-walled and thermally insulated, complies with requirement class I according to ZTV-ING Part 5, A4
- Cable entries: 2 x M25 x 1.5
- Dimensions (H x W x D): 185 x 175 x 455 mm
- Weight: 9.5 kg
- Protection rating: IP65