

LUMINANCE-SENSOR LUCI L20 SKII



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

LUCI L20 SKII

The adjustable field-of-view angle (13–30°) allows the measuring field to be precisely adapted on site to mounting locations that may be outside the stopping sight distance. Protection class II permits safe installation in areas with external electrical potentials (e.g. railways and tramways). All metal parts assume the external potential, while the sensor electronics are double-insulated.

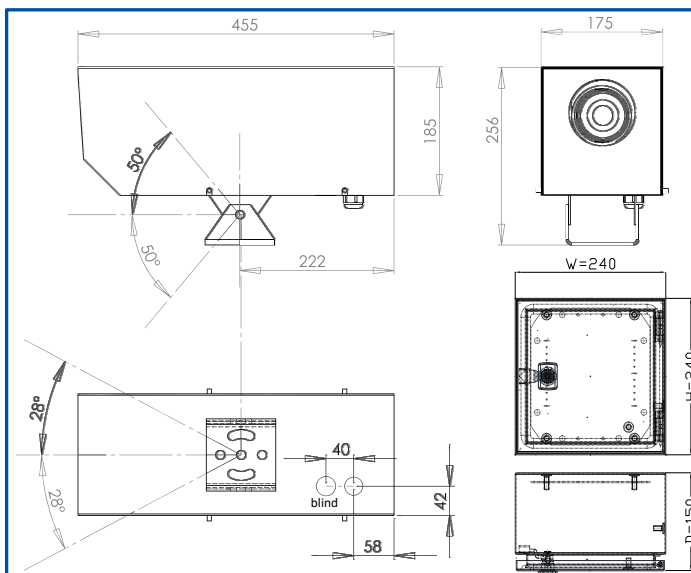
Stainless-steel 1.4571 (V4A) mounting brackets are available as accessories: TRALUCI/EM for poles with diameters of 80–140 mm and TRALUCI/CE for wall mounting. Custom dimensions are available on request.

Pole mounting of the connection box: up to Ø 200 mm using V4A stainless-steel band clamps and the supplied pole bracket.



- Sensors for tunnel-entrance luminance
- Measurement method: integrated luminance in accordance with CIE-L₂₀, or RABT (EABT) / DIN 67524
- Highly reliable amplifier with excellent long-term stability
- Variable optics for adjusting the field of view
- Precise matching to the spectral sensitivity of the human eye, V(λ)
- Electronically controlled anti-icing heater
- The front window is effectively protected against contamination by a special baffle ring that makes use of the air-stagnation effect
- Fault alarm output via a potential-free contact for collective alarms in the event of temperature or signal faults
- Up to two separate measurement channels with individual ranges (e.g. 0...1,000 and 0...10,000 cd/m²)

TECHNICAL DATA:



- Power supply: 230 V AC ±10%, 45...63 Hz, 50 VA
- Measurement method: CIE-L₂₀, RABT (EABT) and DIN 67524
- Measuring range: 0...10,000 cd/m² (up to 2 measuring channels)
- Field of view: 13...30°, adjustable on site
- Output: 4...20 mA / max. load 250 Ω
- Surge protection: fine-wire fuses, varistor, TVS diode
- Connection: maintenance-free spring-clamp terminals, 0.5...2.5 mm²
- Housing: both enclosures made of stainless steel 1.4571 (V4A), sensor double-walled and thermally insulated, inner housing made of glass-fibre-reinforced polycarbonate
- Cable entries / degree of protection: 2 x M25 x 1.5 / IP65
- Dimensions (H x W x D): sensor 185 x 175 x 455 mm / connection box 240 x 240 x 150 mm
- Weight: sensor 9.5 kg / connection box 5 kg