

LUMINANCE SENSOR LUCAS L20 SK II (Protection Class II)



The LUCAS L20 luminance sensor captures the measuring field through a fixed 20° field-of-view angle formed by a diaphragm with a cascaded aperture.

A diopter sight is used to align the sensor.

AMBIENT LUMINANCE

From a distance corresponding to the stopping sight distance, the LUCAS L20 measures the average luminance of the tunnel surroundings as the setpoint for the lighting control system.

ROADWAY LUMINANCE

In controlled systems, the LUCAS is used as an actual-value sensor to measure roadway luminance in the entrance or interior zone of the tunnel.

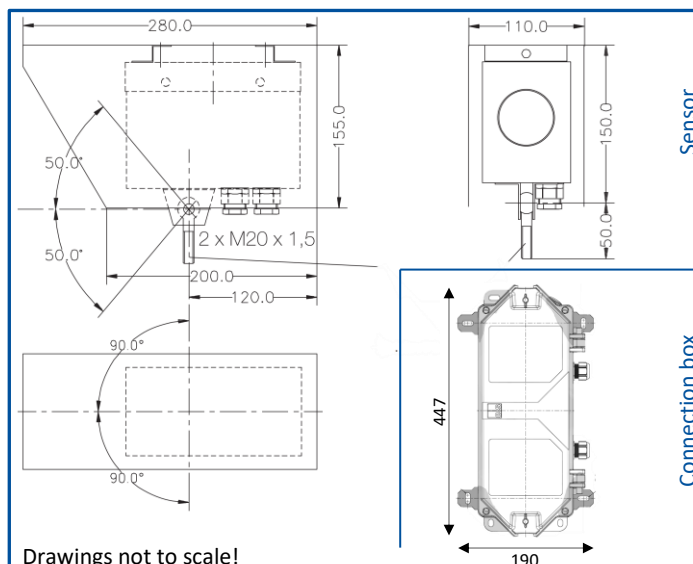
Stainless-steel 1.4571 (V4A) mounting brackets are available as accessories for pole mounting (TRALUCI/EM), straight wall mounting (TRALUCAS01) and angled wall mounting (TRALUCAS02). As standard, the TRALUCI/EM mounting brackets can be supplied with

clamps and fastening sets for different pole diameters ranging from 80 to 140 mm.
Special dimensions are available on request.



- Sensors for measuring the luminance of the tunnel surroundings, entrance zone and interior zone
- Measurement method: integral luminance according to CIE-L20 or RABT (EABT) / DIN 67524
- Long-term stable amplifier with high reliability
- Precise matching to the spectral sensitivity of the human eye, V(λ)
- Electronically controlled heater to prevent icing
- The front window is effectively protected against contamination by a special aperture ring that utilises the stagnation effect
- Fault alarm output via potential-free contact for a collective alarm in the event of a temperature/signal fault
- Up to two separate measuring channels with separate measuring ranges (OPTIONAL, on request)

TECHNICAL DATA:



- Power supply: 230 V AC $\pm 10\%$, 45...63 Hz, 50 VA
- Measurement method: L20-CIE, RABT (EABT) and DIN 67524
- Measuring ranges: 0...10, 25, 250, 500, 1,000, 10,000 cd/m²
- Field of view: fixed at 20°
- Output: 4...20 mA / max. load 250 Ω
- Interference protection: miniature fuses, varistor, suppressor diode
- Connection: maintenance-free spring terminals, 0.5...2.5 mm²
- Housing: halogen-free plastic; sensor made of stainless steel 1.4571 (V4A), thermally insulated, complies with requirement class I according to ZTV-ING, Part 5, Section A4
- Cable entries: 1 x M25 x 1.5 / 1 x M20 x 1.5
- Dimensions I (H x W x D): 447 x 190 x 105 mm
- Dimensions II (H x W x D): 155 x 110 x 280 mm
- Weight: 0.5 kg or 2.5 kg / Degree of protection: IP65