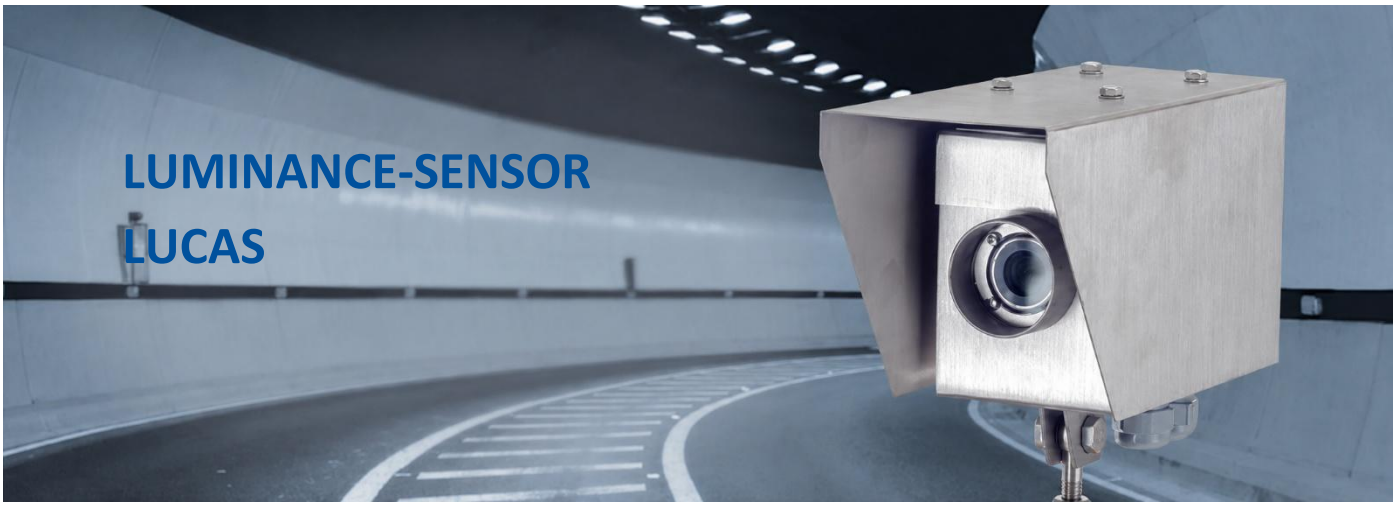
ELECTRIC-SPECIAL
Photronicsysteme GmbH



LUMINANCE-SENSOR LUCAS

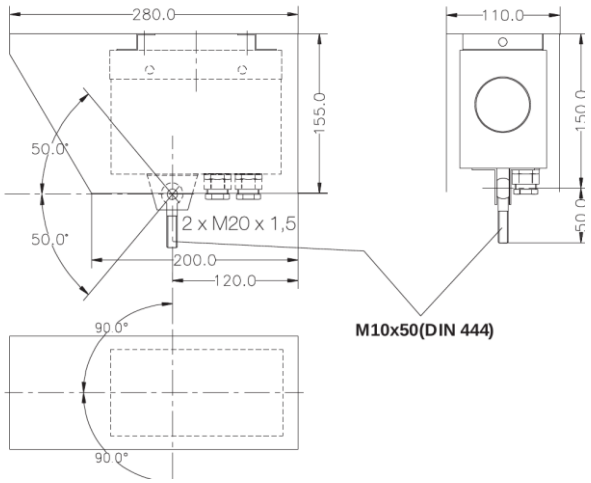
The LUCAS luminance sensor captures the measuring field via a fixed 20° field-of-view angle, which is formed by a diaphragm with cascaded aperture.
A diopter sight is used to align the sensor.
Masking cannot be applied.

AMBIENT LUMINANCE
From the stopping sight distance, LUCAS records the average luminance of the tunnel surroundings as setpoint.

ROADWAY LUMINANCE
In controlled systems, LUCAS is used as the actual-value sensor for measuring roadway luminance in the access or interior zone.

- Sensor for ambient, access and interior zones
- Measuring method: integral luminance according to CIE-L20
- Long-term stable amplifier for high reliability
- Adapted to the spectral sensitivity of the human eye
- Electronically controlled heating to prevent icing
- The front pane is largely protected against soiling by a special aperture ring, using the stagnation effect.

TECHNICAL DATA:



- Power supply: 230 V AC ±10%, 45…63 Hz, 50 VA
- Measuring methods: L20-CIE, RABT (EABT) and DIN 67524
- Measuring range: 0…10,000 cd/m² (up to 2 channels)
- Field of view: 13…30°, variable on-site adjustment
- Output: 4…20 mA / max. load 250 Ω
- Interference protection: fine-wire fuses, varistor, suppressor diode
- Connection: maintenance-free spring terminals 0.5…2.5 mm²
- Housing: stainless steel 1.4571 (V4A), double-walled and thermally insulated, meets requirement class I acc. 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

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