



ILLUMINANCE SENSOR

LUXA-EV

LUXOR-EV

The illuminance sensor LUXA-EV / LUXOR-EV measures the vertical illuminance for controlling lighting systems. It is available according to customer requirements for various measuring ranges between 100 lux and 150,000 lux.

Vertical measuring field

The illuminance is measured by a vertically arranged photo element adapted to the spectral sensitivity of the human eye and enclosed by diffuser glass. This produces a vertical measuring field with a detection angle of 180° in all directions.

Current or voltage signal

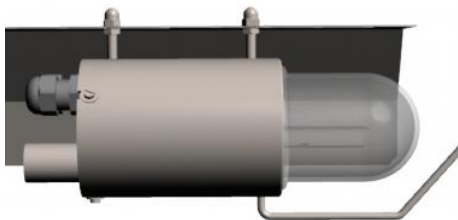
A long-term stable amplifier converts the measuring signal into a linear output signal that is directly proportional to the measured illuminance.

The LUXA-EV version generates a 4...20 mA current signal. The LUXOR-EV version generates a 0...10 V output voltage.



- Sensor for vertical illuminance
- Long-term stable amplifier for high reliability
- Adapted to the spectral sensitivity of the human eye ($V(\lambda)$ correction according to CIE)
- Measuring range end value according to customer requirements, typically 0...100 lux, 0...1,000 lux or 0...100,000 lux
- Linear output signal 4...20 mA (LUXA-EV) or 0...10 V (LUXOR-EV)
- Controlled heating to prevent icing
- Dirt-repellent glass diffuser, protective cover
- Robust stainless-steel housing

TECHNICAL DATA:



210 mm • 295 mm
(Schnittdarstellung)

- Power supply: 230 V AC, 50 Hz, 30 VA
- Measuring range end values: according to customer requirements between 100 lux and 150,000 lux
- Detection angle: vertical 180°
- Output: 4...20 mA / $<500 \Omega$ or 0...10 V / $>1 \text{ k}\Omega$
- Interference protection: varistor, fine-wire fuse, suppressor diode
- Connection: screw terminals 0.5...2.5 mm²
- Housing: stainless steel V4A (1.4571) and glass
- Cable entry for diameters 4...10 mm
- Mounting via mounting bracket with 10 mm hole
- Protection rating: IP 65
- Weight: 1.8 kg