



Mod. **LUM**

Luminance (brightness) sensor

Highlighted specs

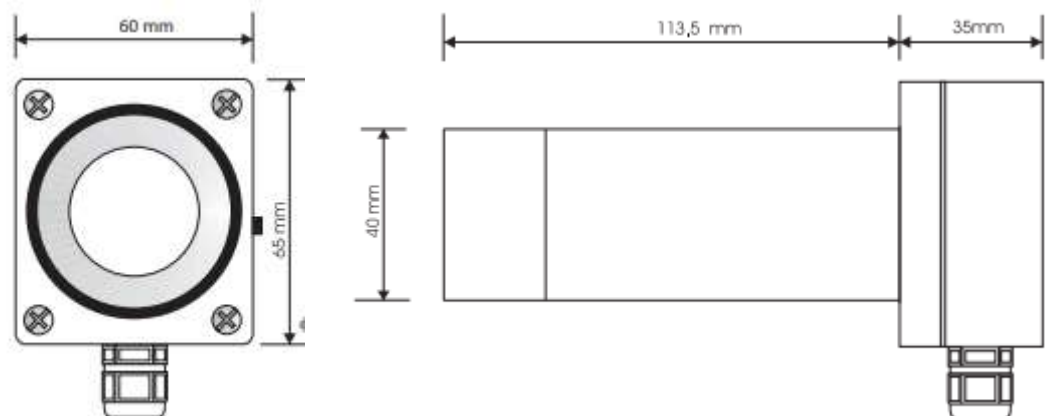
- High precision
- High linearity
- WMO standards compliant
- Different outputs available
- IP67 protection
- According to **CE** norms

The luminance sensor allows you to convert a photometric **Luminance (cd/m²)** into a standard **loop current (2 wires) or voltage or RS485/Modbus** depending on the version. If the acquisition station is far from the probe (> 50m), you must use the current version or RS485 Modbus. The transmitter has degree of protection IP67. In order to perform a correct measurement, it must be ensured that the outer surface of the lens is clean. If necessary, the lens must be cleaned with water and paper for photographic use. It is possible to choose the transmitter sensitivity from three predefined values: **2 kcd/m², 20 or 200 kcd/m²**. The probe is used for street lighting control, in particular, the measurement of luminance in a 20° angle is required to establish the luminance threshold at tunnel. The probe can also be used to evaluate the vertical illuminance and in all applications where it's necessary to evaluate the luminance, such as projection screens.

Typical measurement range	0-2 kcd/m ² ; 0-20 kcd/m ² or 0-200 kcd/m ² (specify on order)
Accuracy	±5% f.s. / full range
Sensibility	0.5-50 mV/(cd/m ²)
Type of transducer	Silicon photodiode
Signal output	Loop 4÷20mA 2 wires (standard); 0÷10Vdc (on request), digital RS485/ModBus (with optional MCS module)
Working conditions	-20 ÷ +60 °C
Protections	Polarity reverse and lightning discharge
Made of	Plastic box with IP67 protection
Power supply and consumption	16 ÷ 40Vdc <0,2 W Loop 4÷20mA 2 wires
Weight	<500g

Size and connections

Pin	Wire	LUM-B
1	White	Out +
2	Red	Vdc(16÷40V)



Order code

Sensor	Output	Accessories
Luminance (brightness) sensor	0÷10Vdc 4÷20mA RS485 / Modbus (MCS option)	CS05 – Cable 5m sensor-datalogger CS10 – Cable 10m sensor-datalogger CSxx – Cable xx* m length, sensor-datalogger – to be specified at order
	LUM	A B C
		05 10 xx

*specify the length for no standard measures

example of order code

LUM B 10 SSU