

Brightness, twilight, temperature sensors

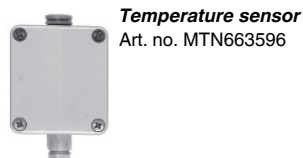
Operating instructions



Brightness sensor
Art. no. MTN663593



Twilight sensor
Art. no. MTN663594



Temperature sensor
Art. no. MTN663596

Necessary accessories

- Weather station REG-K/4-gang (Art. no. MTN682991)
- Analogue input REG-K 4-gang (Art. no. MTN682191)
- Analogue input module REG/4-gang (Art. no. MTN682192)

For your safety



DANGER

Risk of fatal injury due to electrical current

All work on the device should only be carried out by trained and skilled electricians. Observe the country-specific regulations.

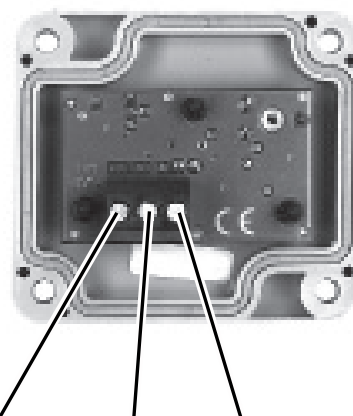
Getting to know the sensor

Depending on the type of sensor, climate data is received and converted into analogue voltage signals (0-10 V) with three measuring transducers: brightness sensor (art. no. MTN663593), twilight sensor (art. no. MTN663594) and temperature sensor (art. no. MTN663596).

For evaluating these signals, the weather station REG-K/4-gang (art. no. MTN662991) or the analogue input REG-K/4-gang (art. no. MTN682191) are required, which can transmit switching or value telegrams to the bus. These devices also provide the necessary supply voltage to operate the sensor.

The sensors are equipped with climate membranes to prevent moisture from accumulating in the housing.

Connections, displays and operating elements



+UB **GND** **OUT**

+UB: Operating voltage DC 24 V
GND: Reference potential (mass), ungrounded
OUT: Output DC 0–10 V

How to install the sensor



Note

The required screws and plugs are included with the delivery.

Lead the incoming cable through the M12 screw fitting to the connection terminals. The length of the incoming cable is limited to max. 100 m.



Note

- Mount the sensors in an accessible location to enable cleaning when necessary.
- Do not mount sensors in the vicinity of transmission equipment (e.g. mobile radio converter).
- Do not lay sensor cables parallel to mains cables or load-carrying cables. To avoid electromagnetic irradiation, a distance of several centimetres from these cables must be maintained.
- Make sure the sensors are correctly aligned (e.g. accurate compass direction) so that measured values are correct.

Technical data

Supply voltage:	DC 24 V (DC 15–30 V)
Output:	DC 0–10 V (mind. 1 kΩ load, short-circuit proof)
Connecting terminals:	Screw terminals, max. 2.5 mm ²
Ambient temperature:	-30 to +70 °C
Type of protection:	IP 65
Incoming cable:	through M12 screw fitting
Recommended cable:	3 x 0.25 mm ²
Cable length:	max. 100 m
Mounting position:	any, recommendation: M12 screw fitting at the bottom
Fixing method:	Screw fixing
Dimensions:	64x58x35 mm
Weight:	approx. 0,2 kg

Brightness sensor

Measuring range: 0–60 kLux, linear
Power consumption: approx. 5 mA

Twilight sensor

Measuring range: 0–255 Lux, linear
Power consumption: approx. 5 mA

Temperaturesensor

Measuring range: -30 to +70 °C, linear
Power consumption: approx. 3 mA

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If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.