

Twilight Sensor 0 - 10V

Order-No.: 0572 00

Brightness Sensor 0 - 10V

Order-No.: 0576 00

Temperature Sensor 0 - 10V

Order-No.: 0577 00

①



Function

The climatic data of interest are collected by three different transducers, ie. the brightness sensor, the twilight sensor (Fig. ①) and the temperature sensor (Fig. ②) and converted into analogue voltage signals (0 - 10 V). The evaluation of these signals requires additional electronics (e.g. Instabus weather base station or sensor analog interface) which offers the capability of transmitting measured value or instruction telegrams to the EIB Instabus depending on the analogue signals received. To prevent the formation of moisture inside the housings, the sensors are equipped with pressure-compensating elements (weather-proofing membrane).

②



Connection (see Fig. ③)

The connecting cables pass through the screwed conduit entry no. 7 to the connecting terminals.

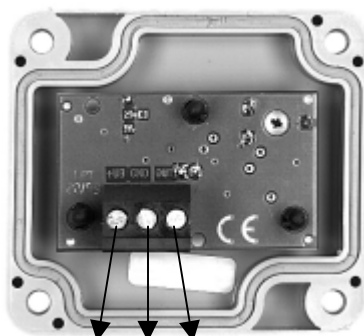
Terminal designations:

+UB: operating voltage 24 V DC

GND: reference potential (ground) non-earthed

OUT: output 0 - 10 V

③



+UB GND OUT

Fitting instructions

- The sensors must be installed in an accessible place to permit necessary cleaning, if needed.
- Do not install the sensors in the vicinity of RF transmitters (e.g. cellular radio transmitters).
- Do not lay sensor cables parallel to mains or other electrically loaded lines. To prevent EMC problems, there should be a distance of a few centimeters between these lines and the sensor cable.
- Make sure the sensors are perfectly adjusted (e.g. pointing in the right direction) as the measured values might otherwise be incorrect.

Safety instructions

Attention: Electrical equipment must be installed and fitted by qualified electricians only.

Technical Data

General

Supply voltage:	24 V DC (15 - 30 V DC)
Connecting terminals:	screw-type terminals, 2.5 mm ² max.
Connecting cable:	through screwed conduit entry no. 7
Recommended cable:	3 x 0,25 mm ²
Length of cable:	100 m max. (observe installation instructions)
Voltage output:	0 - 10 V DC (into a load of at least 1 kΩ, short-circuit protected)
Ambient temperature:	- 30 to + 70 °C
Type of protection:	IP 65
Mounting position:	optional recommend: screwed conduit entry at the bottom
Type of fastening:	screw fastening
Dimensions:	58 x 90 x 35 mm
Weight:	approx. 200 g

Twilight sensor 0 - 10V

Measuring range:	0 to 255 Lx, linear
Operating current:	approx. 5 mA

Brightness sensor 0 - 10V

Measuring range:	0 to 60 kLx, linear
Operating current:	ca. 5 mA

Temperature sensor 0 - 10V

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

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstrasse 12
D-42477 Radevormwald



The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

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