

Brightness sensor

Art.-No.: LA 90

Operationsmanual

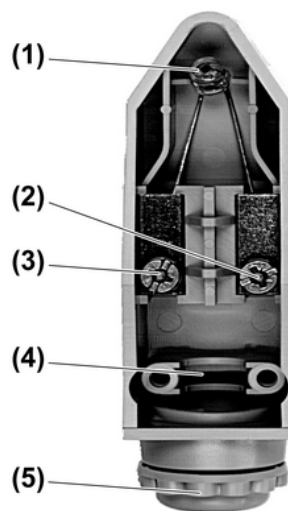
1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components



picture 1: Sun sensor front view

- (1) Photodiode
- (2) Sun connection terminal
- (3) Earth connection terminal
- (4) Fastening for strain relief
- (5) Sensor cable entry

3 Function

Intended use

- Sensor for brightness detection. Provides a sun protection or twilight function in connection with covers of the blind system.
- Surface-mounted device for outdoor installation.

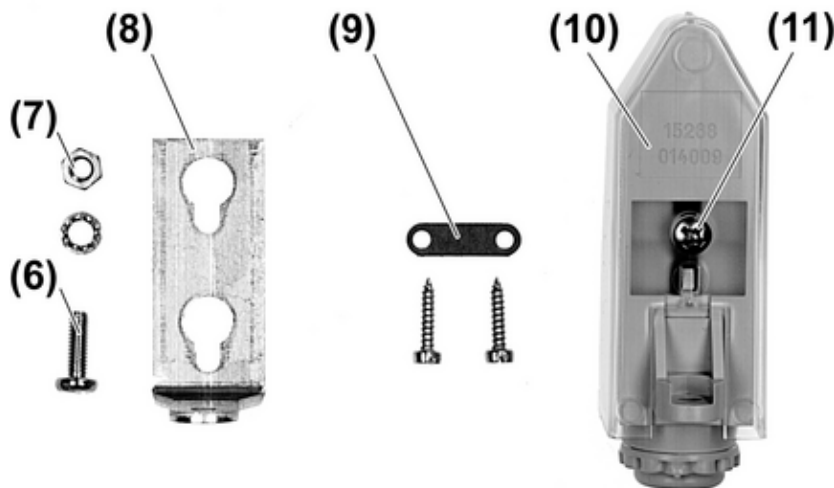
Product characteristics

The sensor supports the following functions of blind covers:

- Sun protection function enables automatic lowering of the blind/shutter when a set brightness value is exceeded.
Application: sun protection for monitor-equipped workstations, flower windows or greenhouses.
- Twilight function enables automatic lowering of a blind/shutter when the brightness drops below as set value.
Application: lowering the blind/shutter at dusk.

4 Information for electrically skilled persons**4.1 Fitting and electrical connection****Mounting and connecting the device**

- i** The sensor cable carries safety extra-low voltage (SELV). Observe fitting instructions according to VDE 0100.



picture 2: Sun sensor and included accessories.

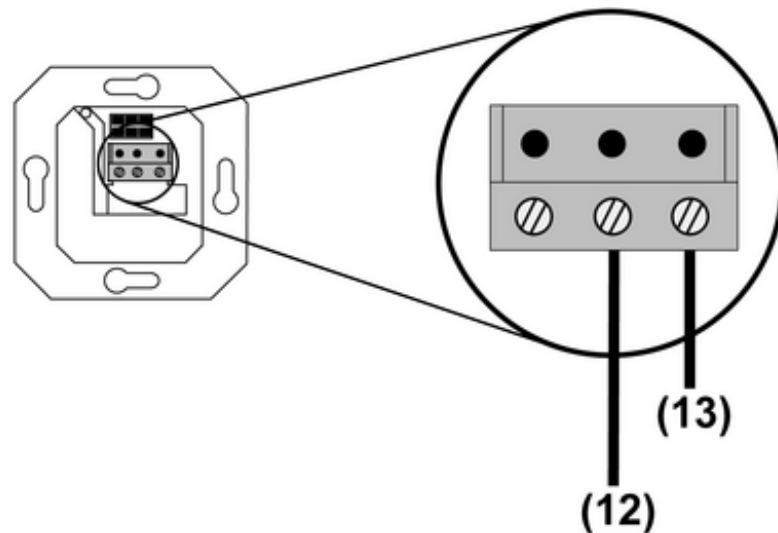
- Mount the sun sensor using the mounting bracket (8) in position suitable for brightness measurement with the cable entry facing downwards (picture 2).
- Fasten mounting bracket (8) and housing using supplied screw (6), washer and nut (7).
- Insert sensor cable into the housing from below (5).
- Connect sensor cable to sun (2) and earth (3) terminals (picture 1).
- Secure sensor cable with strain relief (9).
- Push on transparent housing cover (10) from above until it snaps into place and secure from rear with supplied screw (11) (picture 2).

Connecting sensor cable to terminal block in insert**DANGER!**

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect all the corresponding miniature circuit breakers. Cover up live parts in the working environment.



picture 3

- Connect sensor cable to the terminal block in the blind insert in accordance with connection diagram (picture 3).
(12) = Earth
(13) = Sun
Interchanging the connections will result in malfunctions.
- i** The sensor cable must not be too long, because otherwise interference from other loads and cables may occur. This may result in malfunctions. Therefore use only shielded cables, and connect the shielding to earth. Recommended cable J-Y(St)Y2x2x0.6. The total length must not exceed 20 m; avoid proximity to other electrical facilities.

5 Appendix

5.1 Technical data

Ambient temperature
Protection rating

-30 ... +70 °C
IP 54

5.2 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

ALBRECHT JUNG GMBH & CO. KG

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Kupferstr. 17-19
D-44532 Lünen
Service-Line: +49 (0) 23 55 . 80 65 51
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KNX equipment

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