RESOL®
CONTROL TECHNOLOGY

CS10 Solar cell

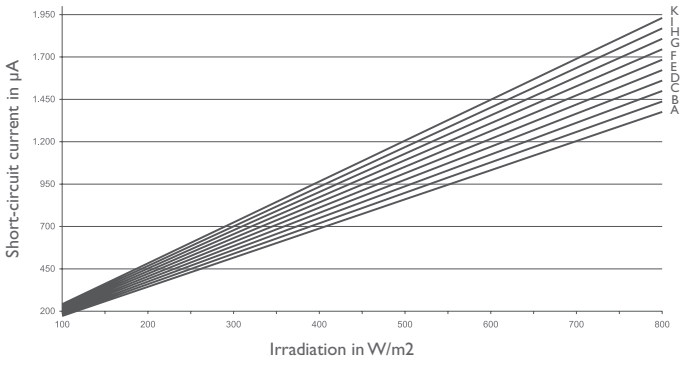
The solar cell is used for measuring the irradiation intensity. The short-circuit current rises with increasing irradiation intensity.
The short-circuit current is proportional to the irradiation intensity (see diagram).

TECHNICAL DATA

Housing with cable gland: PG 9
Housing material: PA6 (cable gland) and PMMA (housing)
Dimensions: 83.5 x 34.5 x 32 mm
Ingress protection: IP54 / EN 60529
Temperature: -20 ... +70 °C

Connection cable note:
Cable diameter: 4 - 8 mm
Wire cross section: AWG 22 - 14 (0.34–1.5 mm²)
The cable coating must be permitted for outdoor use.
The connecting cable can be extended to up to 100 m.

Graphical representation of the short-circuit current depending on the irradiation and the sensor type



Example: Sensor type E

At an irradiation of 450 W/m², the short-circuit current is
450 x 2.03 µA = 913.5 µA = 0.9135 mA

Sensor class alpha	Sensor class num	Short-circuit current [µA]
A	1	1.72
B	2	1.80
C	3	1.87
D	4	1.95
E	5	2.03
F	6	2.10
G	7	2.18
H	8	2.26
I	9	2.34
K	10	2.41

Referring to the solar irradiation per m² [W/m²]

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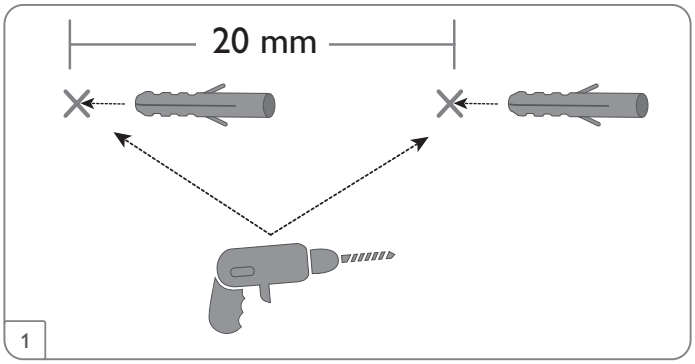

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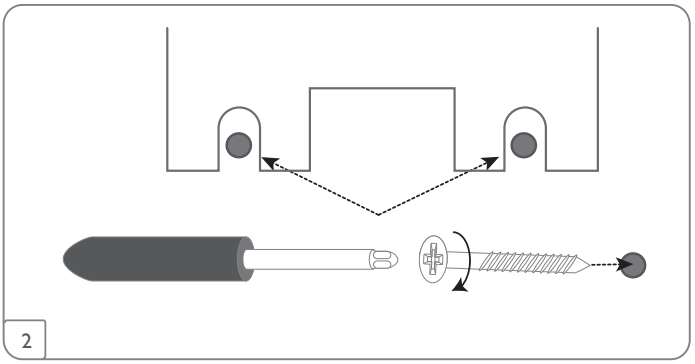

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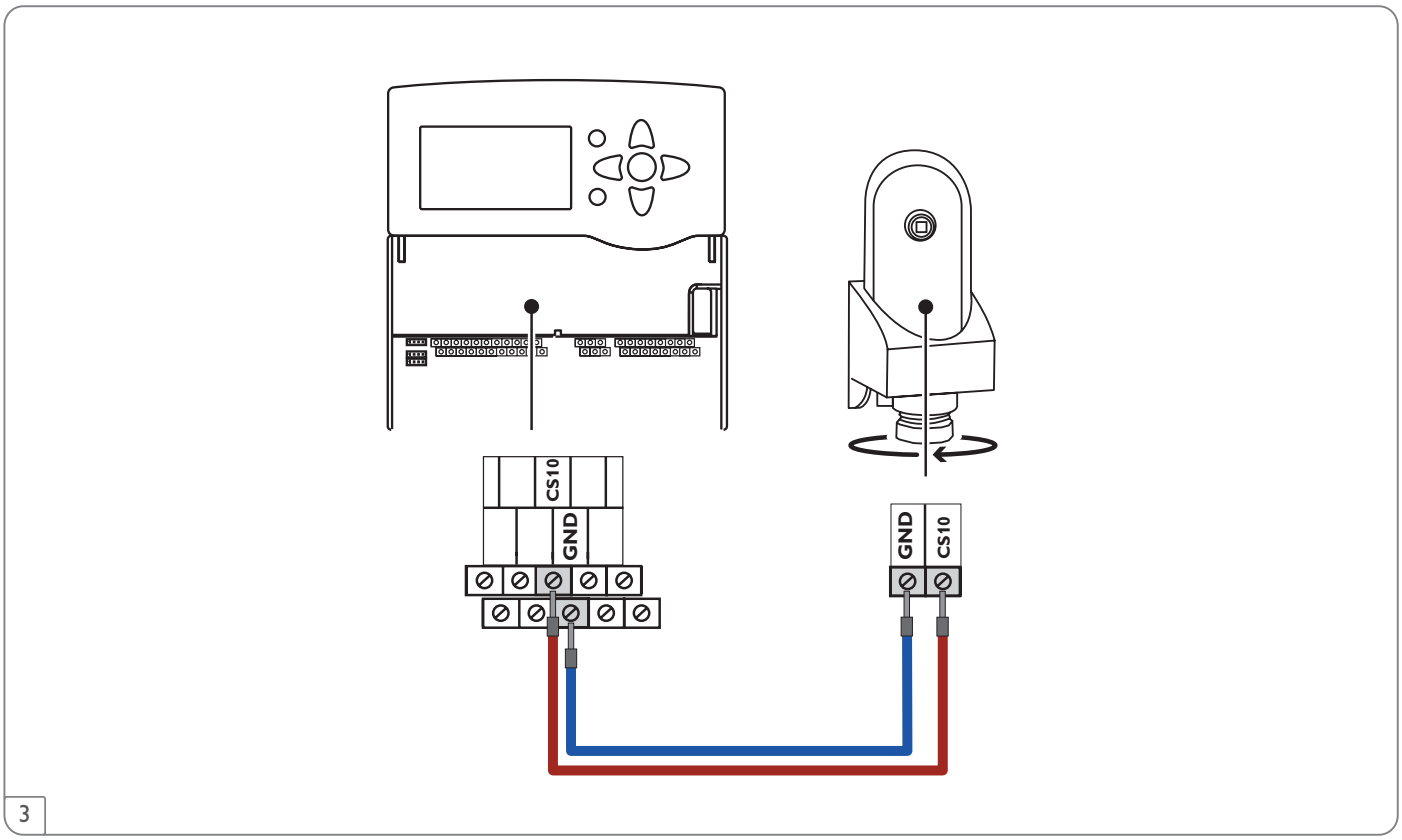

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