

CS10 Solar cell



Sensor class alpha	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 m^2 [W/m^2]

The solar cell is used for measuring the irradiation intensity. The short-circuit current rises with increasing irradiation intensity.

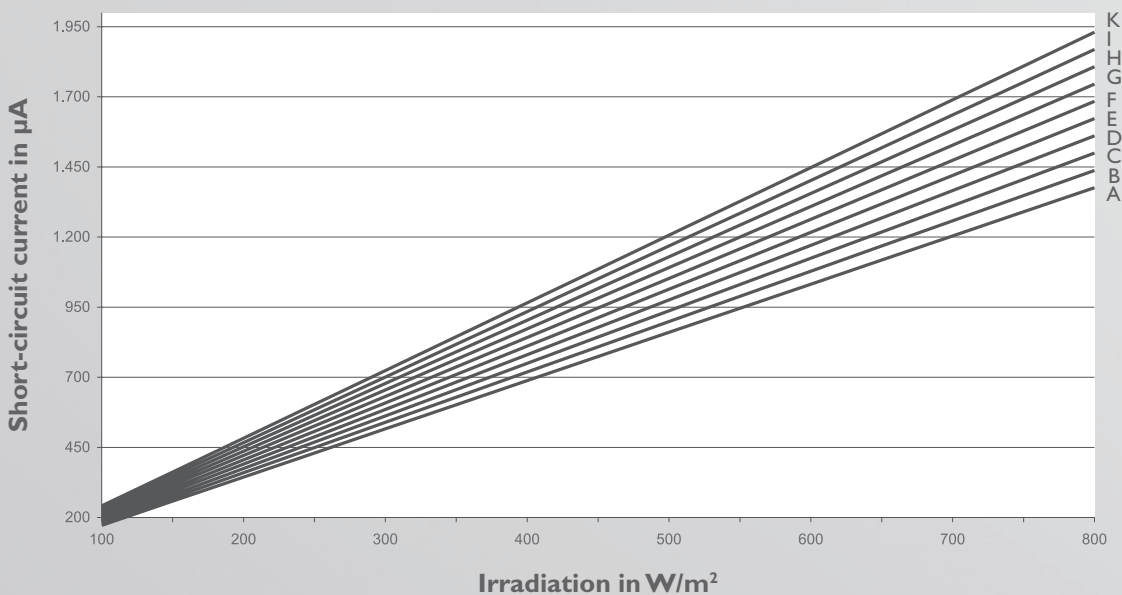
The short-circuit current is proportional to the irradiation intensity (see diagram).

Example: Sensor type E

At an irradiation of $450 \text{ W}/\text{m}^2$,
the short-circuit current is

$$450 \times 2,03 \mu\text{A} = 913,5 \mu\text{A} = 0,9135 \text{ mA}$$

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



The connecting cable can be extended to up to 100 m.