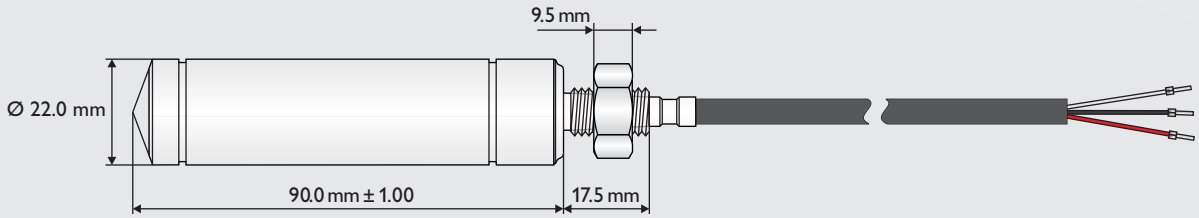
RESOL®
Control technology

CS-I Global irradiation sensor

The CS-I global irradiation sensor is used for precise and reliable measurement of solar irradiation. It converts the irradiation measured proprotionally into an interference-resistant 4 ... 20 mA signal.

Evaluation and display of measured values by means of the DL3. Further interfaces are to follow.

Technical Data



Housing

Ambient temperature: -40 ... +75 °C
Material: PVDF, 1.4301, 1.4305
Protection type: IP67 (DIN EN 60529)

Cable

Cable leads: 3 x 0,5 mm² silicone-based, CuSn
Temperature range: -50 ... +180 °C

Electrical data

Supply voltage: 12 V⎓
Measuring range: 0 ... 1500 W/m²
Power consumption: up to 10 mA

Measurement accuracy

Reference conditions: +25 °C +/- 5 K
Response time: < 1 s
Accuracy: +/- (5 % + 10 W/m²)
Temperature dependence: < 0,1 %/K (-10 ... +70 °C)
Long-term stability: < 2 % per year

Output signal

Output: 4-20 mA
Short-circuit proof
Loop resistance ≤ 650 Ω

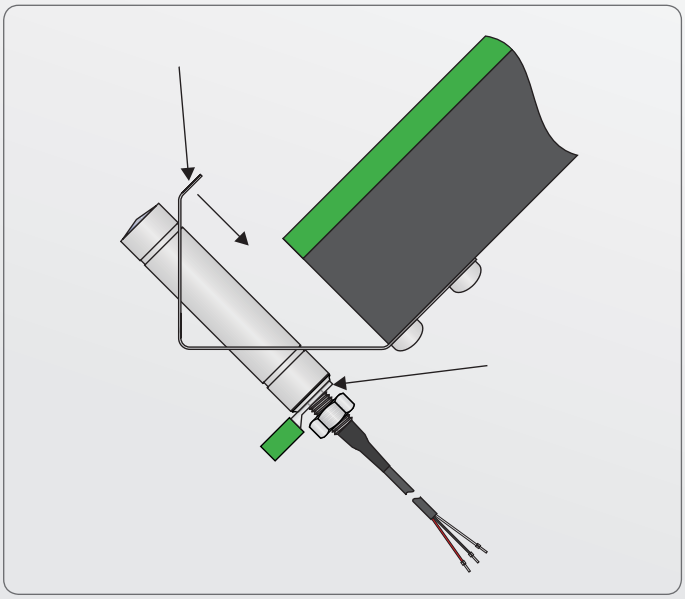
Connection

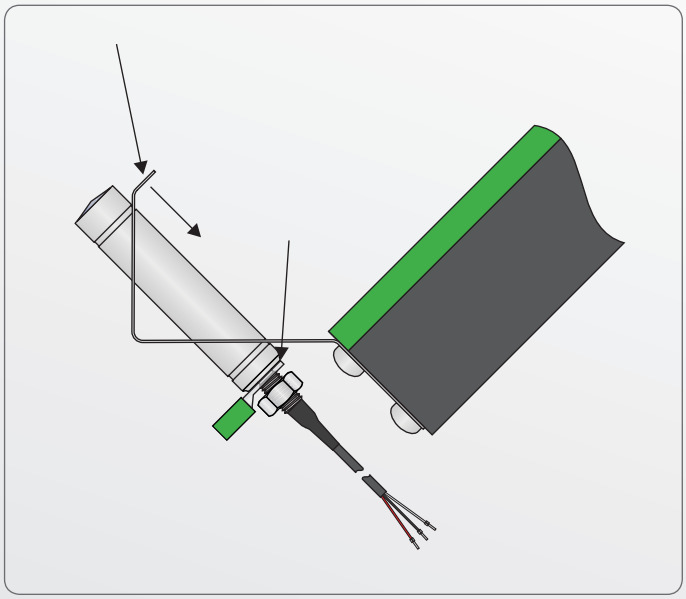
red	+VDC	power supply
black	GND	ground
white	OUT	signal

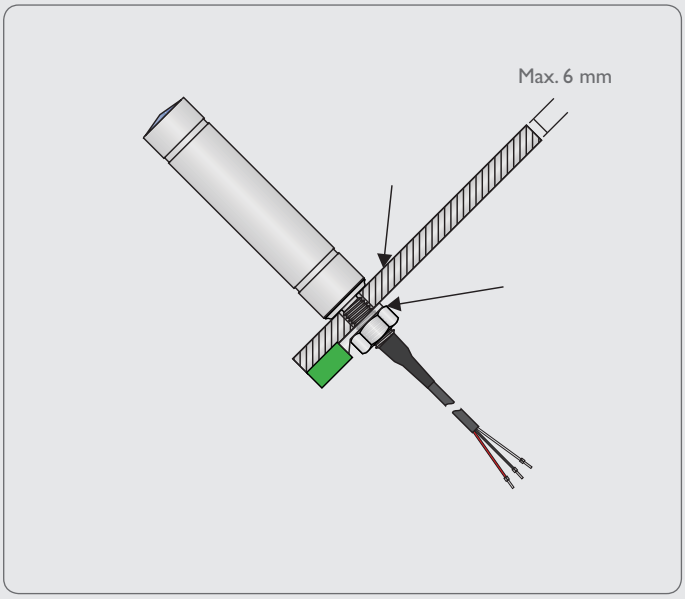
Note: The output signals are not galvanically isolated!
➔ Ground the sensor housing.

Mounting

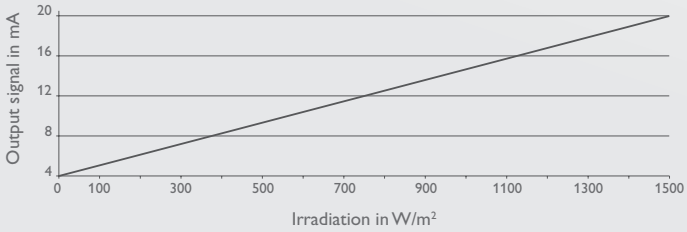
Different mounting possibilities





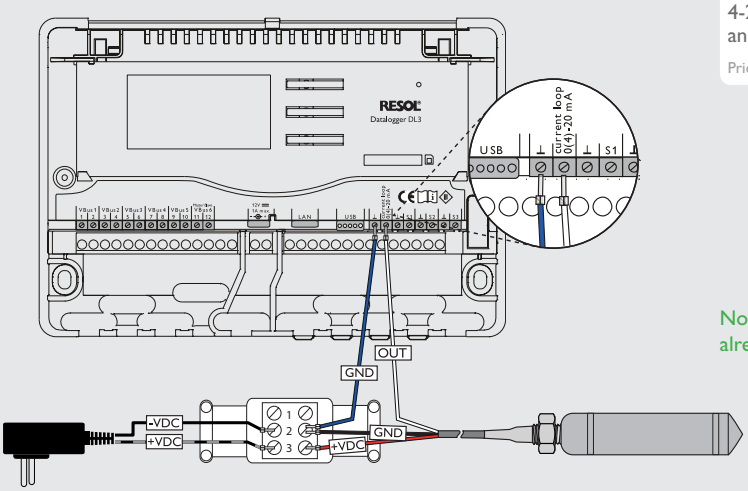


Output signal depending on irradiation



The connection cable can be extented to up to 100 m.

Electrical connection



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4-20 mA output signal, sensor incl. mains adapter, connection box and mounting material

Price bracket C | Article no: **151 005 10**

Note: The sensor comes with connection box and mains adapter already connected.

Do you have any further questions? We have the answers:

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