



Monocrystalline silicon sensor for the measurement of solar radiation and temperature module.

Measuring of encapsulated in plastic material cell resistant to weathering and UV rays.

Outer container made of powder coated aluminum equipped with two brackets, each with an 8 mm hole and two 6 mm holes, used for fixing the device.

TECHNICAL SPECIFICATIONS

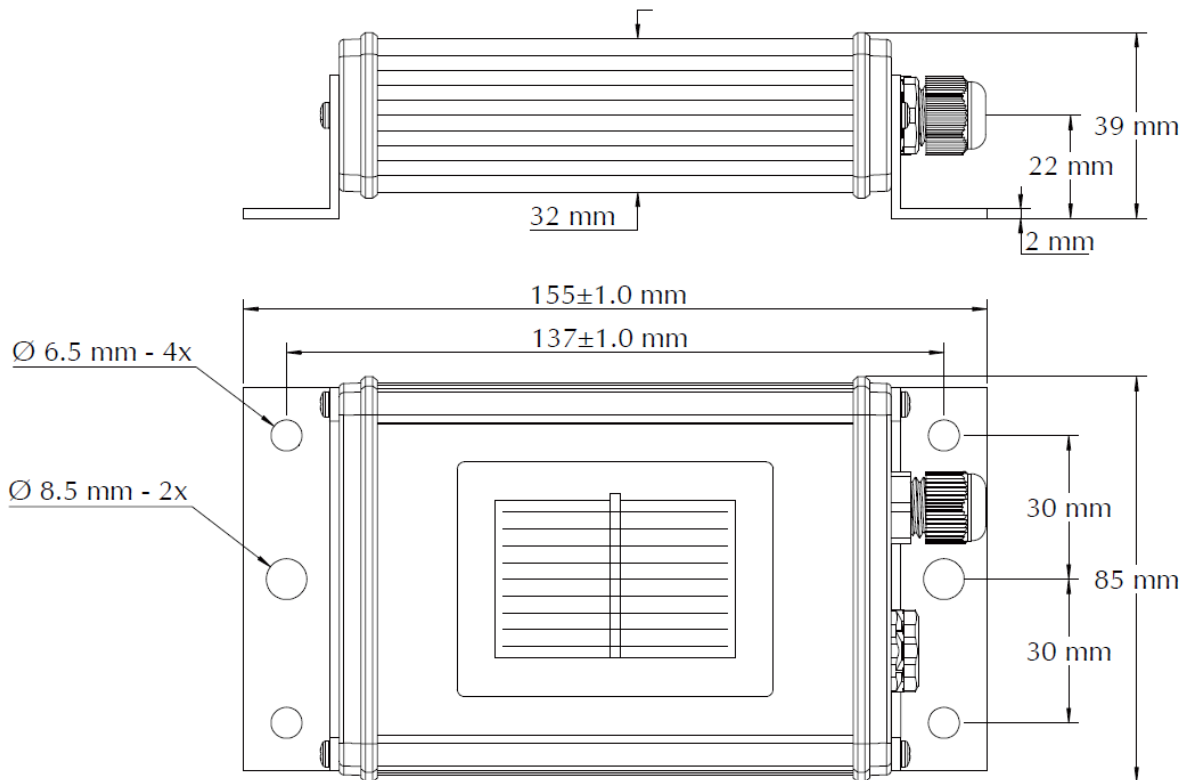
SILICON SENSOR

Solar Cell	Monocrystalline silicon (50 mm x 33 mm)
Operating temperature	from -35 °C to 80 °C
Electrical connection	3 m shielded cable
Case, protection mode	Powder-coated aluminium, IP 65
Dimension, weight	155 mm x 85 mm x 39 mm, approx. 350 to 470 g
Customs number for all sensors	85 41 40 90
Output Signal	Solar radiation: 0..10V for 0..1500 W/m2 Cell temperature: 0..10V for -40..+90°C
Galvanic isolation	1.000 V between power supply and bus
Power supply	24 V _{bc} (12 to 28 V _{bc}) typic < 1 mA

UNCERTAINTY OF MEASUREMENT

Based on GUM (Guide to the Expression of Uncertainty in Measurement) with K=2

Solar radiation: ±5 W/m2 ±2.5 % of valid reading for temperature compensation, AM 1.5 spectrum and vertical bright beam
Cell temperature: 1.0K / 1.1K, -35 to +70°C / -35 to +80°C conditions



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