sinapsi
invent today

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.

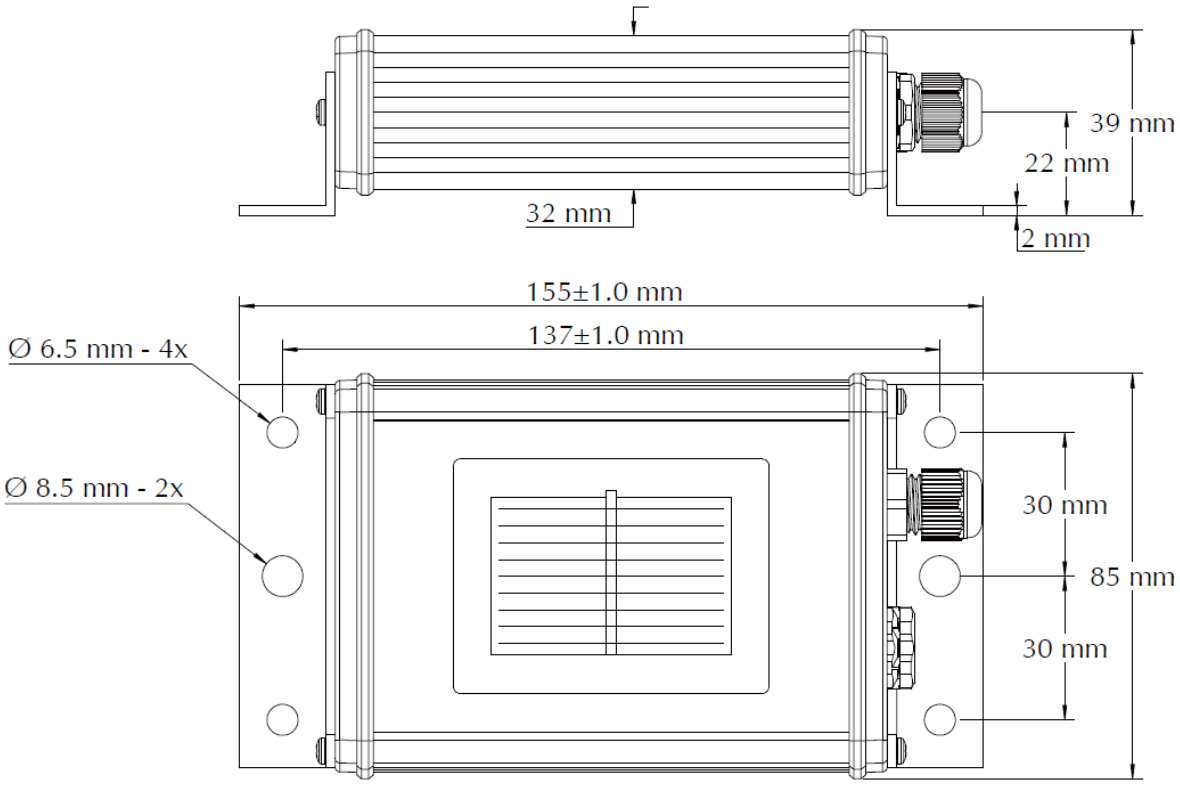
## TECHNICAL SPECIFICATIONS

### 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 |
| Protocol | M&T (type -MT), MODBUS RTU (type -MB) |
| Interface | RS485 up to 38.4 kBaud |
| Galvanic isolation | 1.000 V between power supply and bus |
| Power supply | 24 $V_{DC}$ (12 to 28 $V_{DC}$) typic 25 mA |

### PRECISION

| | |
|---|---|
| Error (irradiance) with temperature compensation compared to pyranometer within the operating range from -20 ° C to 70 ° C and vertical beam of irradiation | ± 5 % |
| Error (temperature) | ± 1,0 °C (-20 °C ÷ 70 °C) / ± 2,0 °C (-20 °C ÷ 85 °C) |




ORDERING CODE SIN.SENS485T



Sinapsi S.r.l. | Via delle Querce 11/13 - 06083 Bastia Umbra (PG) - Italy
T. +39 075 8011604 - F. +39 075 8014602 | www.sinapsitech.it - info@sinapsitech.it