

CL-ES02A – Solar Radiation Sensor



The CL-ES02A Solar Radiation sensor can be used with solar panel systems to optimize solar panel setups. Analyze real-time solar data to measure environmental impact on PV efficiency and enhance system control strategies. CL-ES02A sensor measures solar radiation within range of 350 – 1100 nm wavelengths.

FEATURES

- Durable aluminum alloy housing
- Waterproof connector
- Mounting holes
- High sensitivity readings



Complies with applicable CE directives.

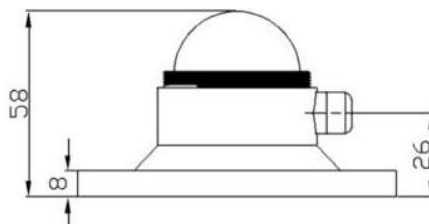
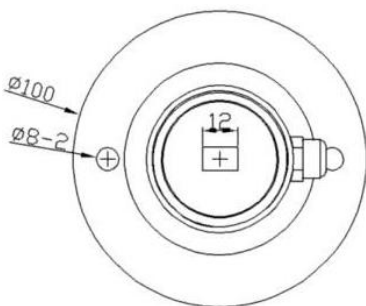
APPLICATIONS

- Solar energy, meteorology: can be used as a sunshine time sensor
- Agriculture
- Construction materials aging monitoring, air pollution monitoring

SPECIFICATIONS

▪ Spectral range	▪ 350 – 1100 nm
▪ Supply	▪ 12VDC
▪ Range	▪ 0 – 1500W/m ²
▪ Resolution	▪ 1W/m ²
▪ Output	▪ RS485
▪ Response time	▪ ≤5s
▪ Temperature effect	▪ <0.08% / C
▪ Cosine correction	▪ ≤±10% (solar elevation angle=10°)
▪ Non-linearity	▪ < ±3%
▪ Operating temperature	▪ -40 – 80°C (-40 – 176°F)
▪ Housing material	▪ IP65 / Aluminum alloy
▪ Cable length	▪ 59 inches (1.5m)

DIMENSIONS (Unit:mm)



TECHNICAL SUPPORT

For support inquiries:
Visit: <https://www.cyclogic.net/>
E-mail: help@cyclogic.net