

Description

The SEN-SR-SS is a Sunshine sensor with a TTL (High / Low) output and exhibits excellent cosine response. It incorporates a silicon-cell photodiode that measures solar radiation. With a sensor housing design that features a fully potted, domed-shaped head making the sensor fully weatherproof and self-cleaning.

Specifications

Power Supply: 10-14 VDC
Spectral Range: 360 nm to 1120 nm (wavelengths where response is 10 % of maximum)
Sunshine Threshold: 120 W/m²
Sensitivity: 0.20 mV per W/m²
Calibration Factor: 5.0 W/m² per mV (reciprocal of sensitivity)
Calibration Uncertainty: ± 5 %
Measurement Repeatability: < 1 %
Non-stability (Long-term Drift): < 2 % per year
Non-linearity: < 1 % (up to 1750 W/m²)
Response Time: < 1 ms
Field of View: 180°
Output: TTL High for 'Sunshine'
TTL Low for 'No Sunshine'
Directional (Cosine) Response: ± 5 % at 75° zenith angle
Temperature Response: -0.04 ± 0.04 % per C
Operating Environment: -40 to 70 C, 0 to 100 % relative humidity



Cable length: 5m
(extendable at extra cost)

Input: Self Powered for mV O/P
For others O/P 10-28 VDC, 30-60 VDC

Output: mV O/P : 0 to 400mV

Applications

Determining Sunshine duration for different application

Ordering Guide

Output

For mV O/P:

Model No.

SEN-SR-SS-mV

Virtual



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Represented by:

****Drawing & specifications are subjected to change at any time without prior notice as per manufacturing suitability.**