



EMS Brno

Data Acquisition Environment
Hardware – Software – Cloud application
www.emsbrno.cz

Quantum sensor EMS 12

Main features:

- 400 to 700 nm range
- Glass diffuser – long time period between recalibration
- Silicon semiconductor photovoltaic detector
- Connector in sensor body



Specification:

- Voltage output
- Sensitivity typically 15 mV per 2000 $\mu\text{mol s}^{-1} \text{m}^2$
- Linearity max. 1% up to 2000 $\mu\text{mol s}^{-1} \text{m}^2$
- Cosine error <10% up to 85° angle of incidence
- Operating Temperature -20 to 60 °C
- Size: diameter 22 mm, length 39 mm

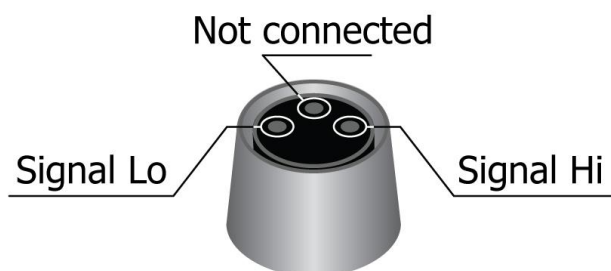


EMS 12 in AL0171 holder

Specification

Output	Voltage
Sensitivity	15 mV per 2000 $\mu\text{mol s}^{-1} \text{m}^2$
Linearity	Less than 1% up to 85° angle of incidence
Connection	Three wire Escha M8 connector female
Size (diameter x length)	22 x 39 mm
Weight	30 g
Operating environment temperature	-40 to 60 °C
Operating environment humidity	0 to 100%
Protection	IP 68

**Quantum sensor EMS 12
- female connector wiring**



**Standard M8 male
connector cable wiring**



Brown - Signal Hi
Black - Not connected
Blue - Signal Lo

EMS 12 – sensor characteristic:

