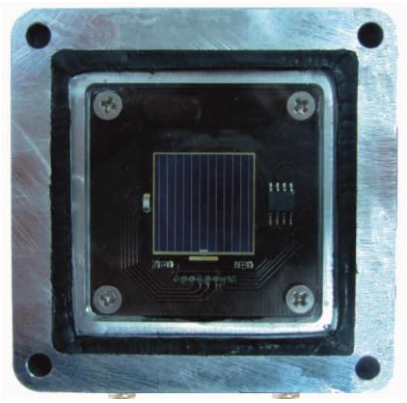
Solar Reference Cell

Performance profile of the solar cell



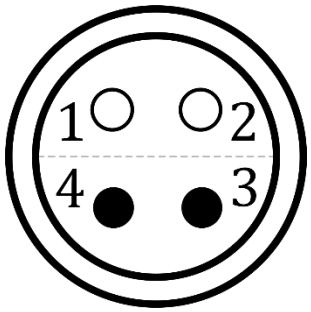
- spectral response 300-1200 nm
- excellent long-term stability
- operative temperature range: -25°C to +85°C
- Monocrystalline silicon technology, 18,5x18,5 mm
- solar glass cover
- protection class IP66
- thermally contacted aluminum housing: 70x70x15mm
- potential separated from housing
- *Calibration certificate available, issued by external institute (Fraunhofer Institute ISE, PI Photovoltaic Institute Berlin)
- Housing
  - Aluminum 70x70x15mm
  - Solar glass 3mm
  - protection class IP66
- Irradiation sensor
  - Monocrystalline silicon technology, IXYS, XOD17-34B
  - cell encapsulated in transparent, insulating silicone
  - active surface 18,5x18,5mm
  - responsivity: 0,056 $mV/\frac{W}{m^2}$
  - temperature coefficient I_{SC} = 0,033 $\%/_K$
- Temperature sensor
  - A PT100 RTD
  - Class A PT100
  - Four-point contacted

Analog measurement

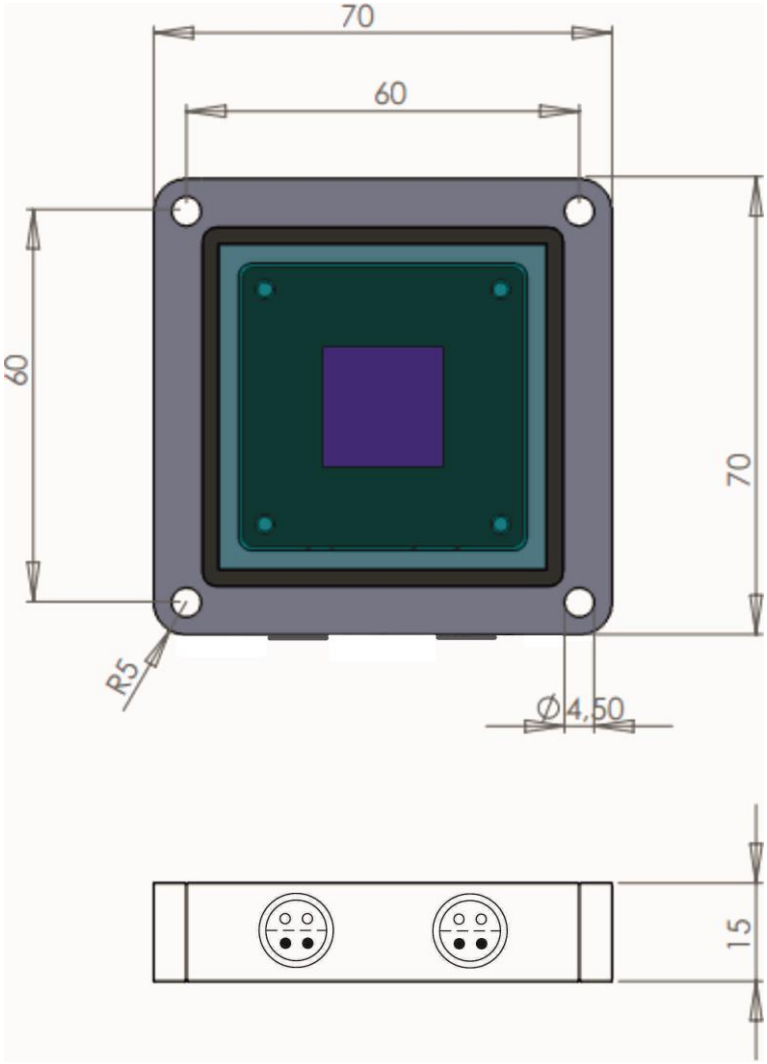
- Connection: LEMO ERA.0S.304.CLL, number of Poles: 4
- Performance Detail:
  - Insert: 4 Low voltage
  - Insulator: L: Peek

SOLARC Innovative Solarprodukte GmbH
Glogauer Straße 21
D - 10999 Berlin
Tel/Fax +49 30-3198554-00/99
info@solarc.de www.solarc.de

Solar Reference Cell



Pic. 2: ERA.0S.304.CLL



SOLARC Innovative Solarprodukte GmbH
Glogauer Straße 21
D - 10999 Berlin
Tel/Fax +49 30-3198554-00/99
info@solarc.de www.solarc.de