

- ¡ Measurements of:
  - sunshine state
  - one-minute sunshine duration
  - ten-minute sunshine duration
- ¡ Output signals:
  - optical isolated serial RS 485
  - electronic contact
- ¡ Elimination of:
  - frost
  - snowfall
- ¡ Fast response
- ¡ Overvoltage protection
- ¡ Low power consumption
- ¡ Wide range supply voltage
- ¡ Heating for icing elimination included
- ¡ Minimal maintenance
- ¡ Water-tightness
- ¡ Low weight



### Specification:

#### - measurement

Measurement element	semiconductor diodes
Measured values	Instant sunshine state; duration 1 & 10 minutes
Spectral bandwidth	400 ÷ 1100nm
Sunshine signal	contact output OFF/ON
Threshold value	120W/m <sup>2</sup>
Viewing angle	270°
Latitude for use	±15° to +90°
Response time	1 sec.
Accuracy	> 95% (monthly sunshine hours)
Non-stability	< 2% change per year
Threshold stability	< ± 0.5% per year
Temperature dependence	< 1.8%

#### - mechanical

Dimension	ø87x82mm
Weight	0.6kg
Length of terminal cable	3m

#### - electrical & interface

Power supply	6÷24VDC
Power consumption	max. 7 mA
Heating supply	max. 24V / R=47 Ohm
Heating consumption	0.26A @ 12V
RS485	9600Bd, 8N1
contact output	U <sub>max</sub> =30V, I <sub>max</sub> =300mA

#### - environmental

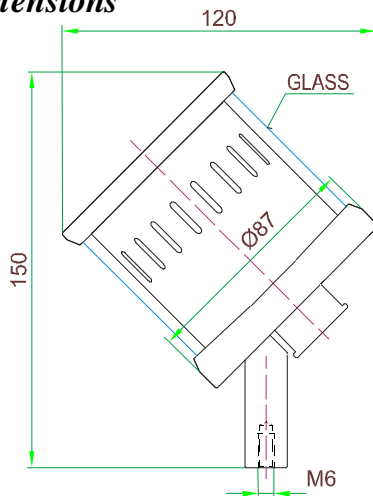
Operating temperature range	± 40°C ÷ +70°C
Operating humidity range	0 ÷ 100%
Storage temperature range	± 50°C ÷ +85°C
Environmental sealing	IP65

## Wiring

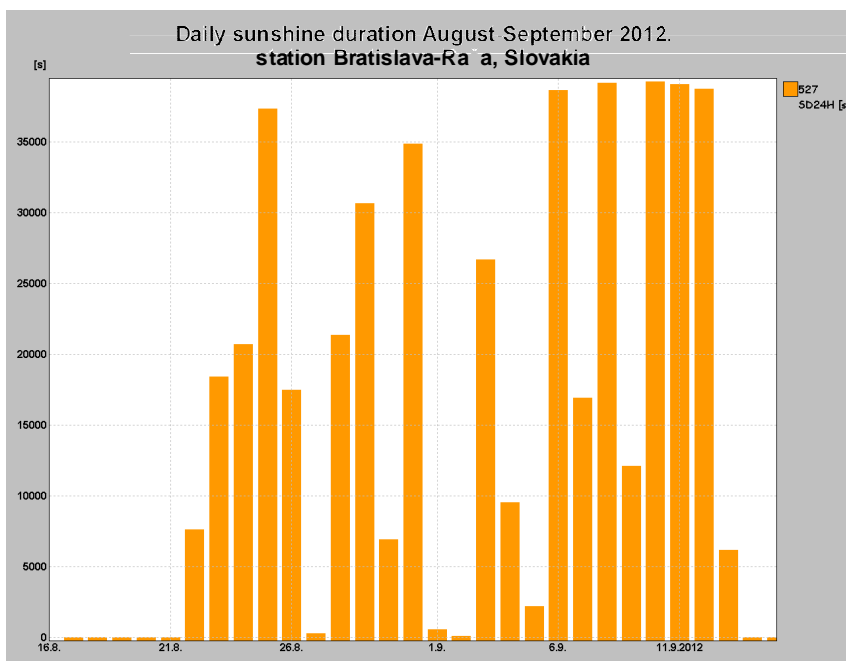
signal	name	colour
positive power supply	Vcc	red
negative power supply	GND	blue
positive heat power	Vheat+	orange/pink
negative heat power	Vheat0	violet
positive data RS485	A485	yellow
negative data RS485	B485	green
contact output A	ReA	grey
contact output B	ReB	brown*

\* - in SD8 "ReB" white

## Dimensions



## Sample measurement



rev.: 1.03

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