



Radiometer VIS Sensors

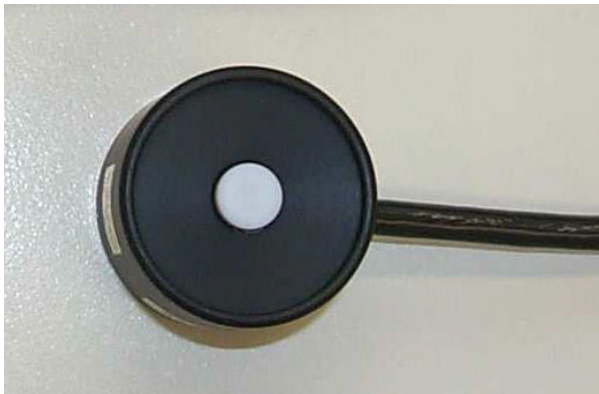


Fig. 1: Radiometer VIS sensor

The radiometer VIS sensors are measuring heads for the radiometer RM12 and the dosimeter RM21. They measure irradiances for blue (VISB) or blue-green (VISBG) light respectively illuminances according to the day sensitivity curve of the eye $V(\lambda)$ (VISL).

The integrated diffuser serves for the *cosinus* correction that is necessary at non-perpendicular irradiation. The sensors are calibrated with respect to a PTB (Physikalisch-Technische Bundesanstalt) reference.

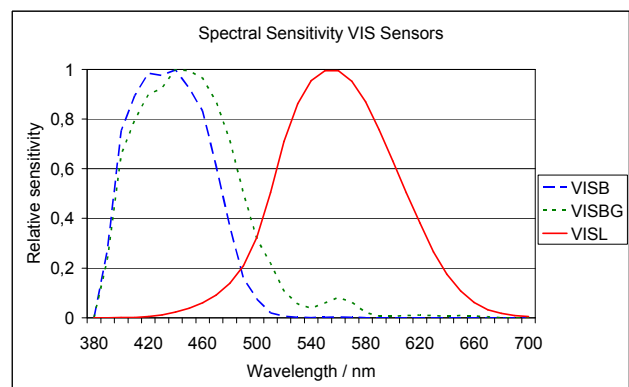
The sensors can be supplied in a water jet protected version according IP65 and with different measuring ranges. The integrated electronics generate a signal voltage that is transferred to the radiometer with low noise by a shielded cable.

Technical Data

Measuring range: 200 mW/cm² (VISB/BG)
200 klx (VISL)

Resolution: 0.01 mW/cm² (VISB/BG)
0.01 klx (VISL)
Spectral range: VISB 400 to 480 nm
VISBG 400 to 570 nm
VISL $V(\lambda)$
Operating voltage: +/- 5 V
Signal voltage: 0 to 2 V
Operation temp.: 0 to 40 °C
Storage temperature: -10 to 40 °C
Humidity: < 80%
Non-condensing
Connecting cable: 5-lead, 2 m long
Dimensions: Ø 40, h 35 mm
IP65: Ø 50, h 47 mm
Weight: 150 g, IP65: 280 g

Fig. 2: Spectral sensitivity



Part numbers

RM sensor VISB	811040
RM sensor VISBG	811042
RM sensor VISL	811090
RM sensor VISB IP65	811240
RM sensor VISBG IP65	811242
RM sensor VISL IP65	811290