



Visual radiation sensor type 4.10

V-lambda-radiation

The spectral range of light visible to the human eye is called V-Lambda-Radiation.

The measured value is a depiction of the subjectively perceived brightness. Spectral range extends from the end of UV-light at 400nm to the start of IR-light at 720nm with a maximum at 555nm. The measured value of illuminance in W/m^2 can easily be converted into Lux.

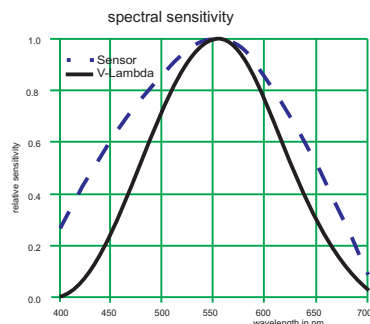
Measuring results are important for any projects involving the human perception of light and the illumination of workplaces.

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The measuring head may be used in medical and biological research, weather information and forecast systems, climate research, agriculture and engineering.

The device is equipped with a dome of flat glass and a weatherproof housing made of aluminum. It's waterproof up to 15m (50 ft).

Measuring values are cosine corrected.



technical specification

Measuring range V-lambda	0 - ca. 10 klx
spectr. sensitivity	360 nm - 760 nm
max. spectral sensitivity	555 nm
working temperature	-20°C - +60°C
signal output	0V - 5V/4-20 mA
power supply	+9V - +18V / <500µA
turn on time	< 1 s
turn off time	< 12 s
installation	2 screws M4 in the bottom downward
connector	PTFE
diffusor	flat glass
dome	error f2 < 3%
cosine correction	< 1 %
linearity	< 10 %
abs. error	< 10 mV
dark voltage (E=0)	ca. 300 g
weight	

Specifications are subject to change without notice.

Dimensions:

