UV Sensor "UV-Cure"

Sensor for strong UV irradiation



GENERAL FEATURES





Properties of this sensor

The "UV-Cure" is an axial looking sensor with a male threaded body (M22x1.5) for measurement of high UV radiation to control i.e. curing or drying processes where strong UV light is present. It has an integrated temperature sensor and a diffuser made of radiation hard and temperature resistant microporous quartz glass. The sensor contains integrated electronics and is shielded against electromagnetic interference. Sensor configuration options are spectral response, signal output type and measuring range. The signal output is either a voltage of o to 5 V, a current of 4 to 20 mA, CAN bus interface

or USB. The UV sensor is available with a NIST or PTB traceable calibration.

The measuring range of **analog sglux UV sensors** is 3 orders of magnitude corresponding to 5 mV to 5 V or 4.02 mA to 20 mA output. The highest sensitivity range is 1 nW/cm² to 1 μ W/cm². The lowest sensitivity range is 20 mW/cm² to 20 W/cm². The **digital sglux UV sensors** contain an integrated microprocessor that converts the UV radiation into 125kbit/s digital CAN bus data. A large dynamic range of 5 orders of magnitude allows to measure low radiation and strong radiation without changing the probe. Customers may specify any range between the mentioned limits.

Page 3 of this datasheet allows to enter requirements of the needed sensor. After selection you may forward this document to factory or agent, or alternatively use the sensor probe online configurator at www.sglux.com. Please contact us for assistance.

Fixed Specifications Parameter	Value				
Dimensions	please refer to drawing on page 2				
Weight	140 g				
Temperature Coefficient (30 to 65°C)	0.05 to 0.075%/K				
Operating Temperature	-20 to +80°C				
Storage Temperature	-40 to +80°C				
Humidity	< 80%, non condensing				
Temperature Sensor	Electrical resistance PT100 Type K, class B				
Configurable Specifications Parameter	Value (page 3 shows more detailed information)				
Spectral Sensitivity	Broadband UV, UVA, UVB, UVC, UV-Index, Bluelight and UV+VIS				
Signal Output	o to 5 V or 4 to 20 mA or CAN bus signal (125kbit/s) or USB				
Current Consumption	for 0 to 5 V = < 30 mA / for 4 to 20 mA = signal out / digital = < 17 mA				
Connections	cable = 2 m cable with tinned leads on free end plug = 5 pin male connector with 2 m cable with tinned leads on free end CAN = 2 m cable with 8 pin male connector (to converter or else) USB = with 1.5 m cable with USB-A plug				
Measuring Range	between 1 nW/cm² to 1 μ W/cm² and 20 mW/cm² to 20 W/cm² for analog or 100 μ W/cm² to 20 W/cm² for digital sensors (see questionaire sheet)				

SPECIFICATIONS

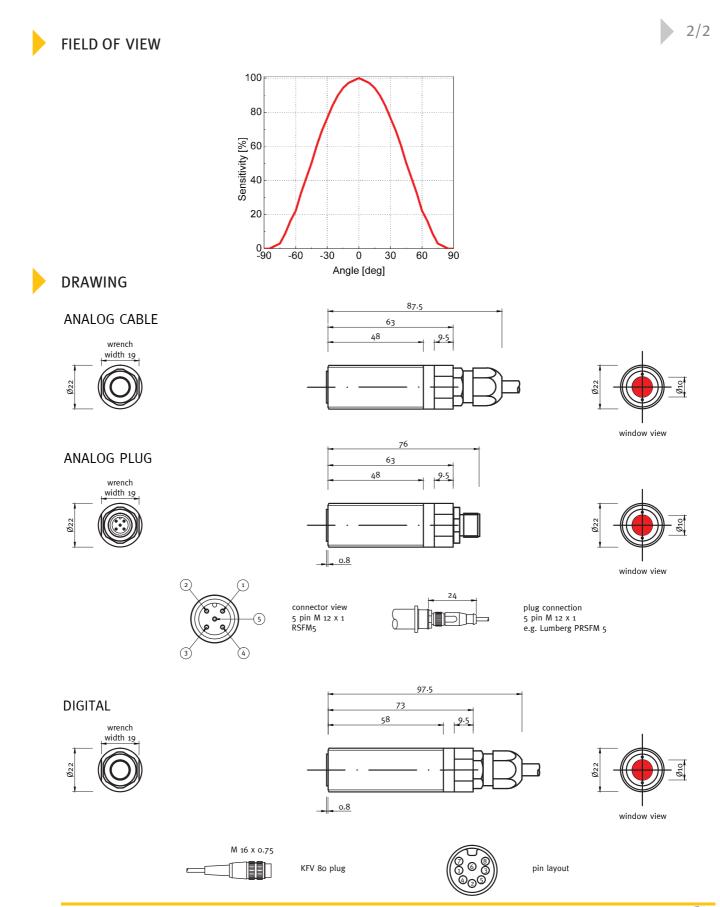
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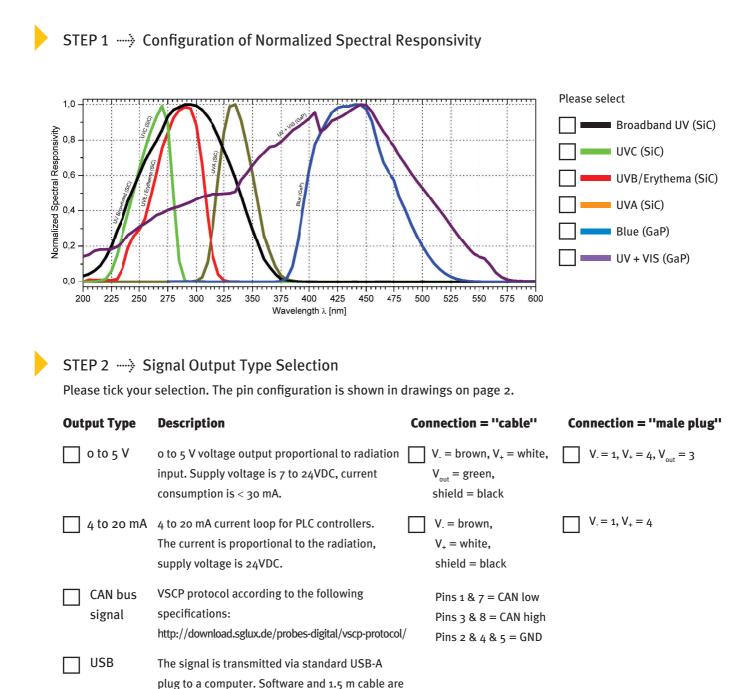


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Requirements questionaire sheet



STEP 3 ----- Measurement Range Selection

included.

Please mark your approx. max. UV intensity to be measured. The dynamic range for analog UV sensors is 3 orders of magnitude and for digital UV sensors it is 5 orders of magnitude.

max. UV			M/ - 2			M/ - 2			
intensity	1µW/cm²	10µW/cm²	100µW/cm²	1 mW/cm ²	10m W/cm ²	100mW/cm ²	1 W/cm ²	10 W/cm²	20 W/cm ²

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Sensor Probes Overview and Accessories

SENSOR PROBES OVERVIEW



For UV radiation reference measurements of radiation exposed to a surface (diameter 38 mm).



UV-Air Schere Threaded body UV sensor

With M22x1.5 thread for many mounting possibilities i.e. inside UV radiation chambers.



UV-Cosine Waterproof cosine corrected UV sensor for outdoor use

Stain repellent for outdoor or in-water measurements. Particularly suited for UV-Index measurements.



UV-Water-G3/4 \longrightarrow 10 bar water pressure proof UV sensor with G3/4" thread

Used in pressurized water systems. Suited for low and medium pressure lamps.



UV-Water-PTFE 10 bar water pressure proof UV sensor with G1/4" thread

Used in pressurized water systems. Suited for low pressure lamps.



UV-DVGW UV sensor for DVGW (40°) certified water purifiers

Complies with standard DVGW294-3(2006), suited for certified water purifiers.



UV-DVGW-160 UV sensor for DVGW (160°) and OENORM certified water purifiers

Complies with standard DVGW294-3(2006) and OENORM 5873, suited for certified water purifiers with 160° FOV.



UV-Cure Sensor for strong UV irradiation, working temperature up to 170° (338°F)

To control curing processes or other high temperature operations where strong UV light is present.



TOCON-Probe ----- Miniature UV sensor

Miniature UV sensor in M12x1 housing. Available with o to 5 V voltage output.



ACCESSORIES FOR ANALOG SENSOR PROBES



Sensor Monitor 5.0 measuring and control module



ACCESSORIES FOR DIGITAL SENSOR PROBES





DIGIBOX ----> CAN-to-USB converter



WINDOWS



