### 工采网 iSweek.cn

## UV Sensor "UV-Arc"

water proof UV sensor with G<sub>3</sub>/4" thread for pantograph arc detection

#### **GENERAL FEATURES**





#### **Properties of this sensor**

The UV-Arc is a waterproof sensor with a male threaded body  $(G_3/4")$  to be used on trains to measure intensity and length of pantograph arcs according to EN 50317. This indicates the quality of the contact between a pantograph and the contact wire and allow a location of defects at the wire within a rail network. The UV-Arc sensor is configured for this special application. It contains a very sensitive photodiode with an additional filter to suppress solar UVB sensitivity. The time constant is adjusted to the typical arc lengths and the metal housing provides high EMC safety.

#### SPECIFICATIONS

Fixed Specifications Parameter	Value
Dimensions	please refer to drawing on page 2
Weight	195 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
Spectral Sensitivity	UVC+
Measuring Range	up to 400 µW/cm²

CONFIGURABLE SPECIFICATIONS Parameter	<b>Value</b> (page 3 shows more detailed information)	
Signal Output	o to 5 V or 4 to 20 mA	
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	

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Requirements questionaire sheet

#### STEP 1 ----- Configuration of Normalized Spectral Responsivity



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Please tick your selection. The pin configuration is shown in drawings on page 2.

Output Type	Description	Connection = "cable"	Connection = "male plug"
o to 5 V	o to 5 V voltage output proportional to radiation input. Supply voltage is 7 to 24VDC, current consumption is < 30 mA.	$ V_{\cdot} = brown, V_{*} = white, $ $V_{out} = green, $ shield = black	$V_{.} = 1, V_{*} = 4, V_{out} = 3$
4 to 20 mA	4 to 20 mA current loop for PLC controllers. The current is proportional to the radiation, supply voltage is 24VDC.	V. = brown, V <sub>+</sub> = white, shield = black	V. = 1, V <sub>+</sub> = 4

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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 Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Schere Sc

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  $170^{\circ}$  (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

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#### ACCESSORIES FOR DIGITAL SENSOR PROBES





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



**Control Pad** .....> windows 8 based 10.1" tablet computer display unit

#### WINDOWS



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