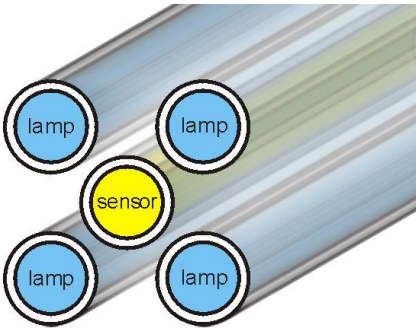
SUV 19 UV-Sensor with 360° panorama view

This sensor is appropriate for monitoring of the intensity of UV radiation from UV lamps especially in **waste water plants**. He should be placed typically parallel to the lamps in a separate submersion tube with diameter 23 mm. Accommodation to other tube diameters can be done easily with Teflon rings or Viton O-rings to guaranty the centring in the tube.
The cable is attached on the sensor with a PG cable gland and is protected in the fist part against UV radiation.
Entrance of the radiation takes place rotation-symmetric over the quartz tube. Predominantly radiation parts perpendicular to the longitudinal axis will be collected.



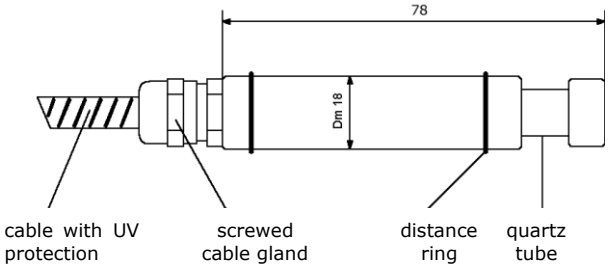
typical sensor position

Main features:

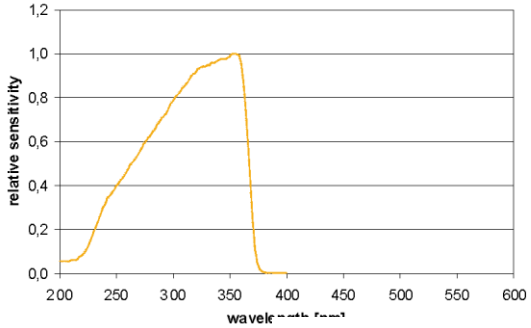
- probe body made of stainless steel 1.4404, ∅ 18 x 92 mm
- GaN based sensor UVD370, spectral sensitivity 220 to 370 nm unaffected by daylight and only sensitive to UV
- sensors with internal amplifier (option Y1/2) are calibrated on 253,7 nm - monochromatic radiation of a low pressure lamp
- 360° UV entrance, ∅ 12 mm
- direction sensitivity predominantly to the longitudinal axis (see the diagram)
- operating temperature: 0 to 60°C
  storage temperature: -40 to 70°C
- degree of protection IP65
- standard design with 5 m cable LiYCY 4 x 0,14 mm², open ends thereof approx. 700 mm flexible stainless-steel protection tube
- internal rectifier option Y1-voltage or Y2-current output available

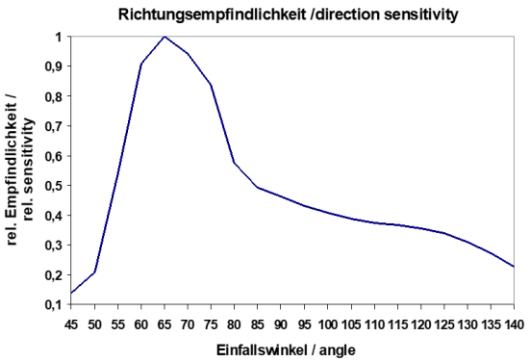
SUV 19 (diode only)	SUV 19 Y1	SUV 19 Y2	cable colours
anode	0-4.5V output	+ UB	yellow
	+ UB	+ UB	brown
cathode	- UB	I out	green
	GND	I out	white
shield*	shield**	shield**	red

* for SUV19: please ground the shield or connect to anode
** for SUV19 Y: please ground the shield in case of disturbance
Shield is connected to sensor body internally – avoid ground loops!



Spectral and direction sensitivity





Modification on customer request possible.