



Waterproof UVC-SE Sensor

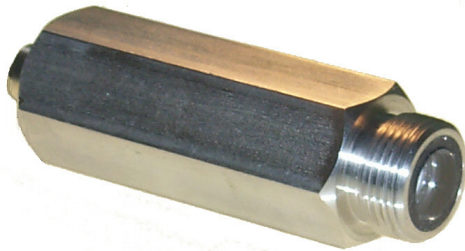


Fig. 1: Waterproof UVC-SE sensor

The waterproof UVC-SE sensor serves as a robust, long-time stable measuring head for the precise measurement of UV-C irradiances in water disinfection systems. They are available in different supply voltages to allow an easy integration in different systems. A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials. The sensor signals can be transferred to the UV monitor RM32 or directly to a PLC system controller.

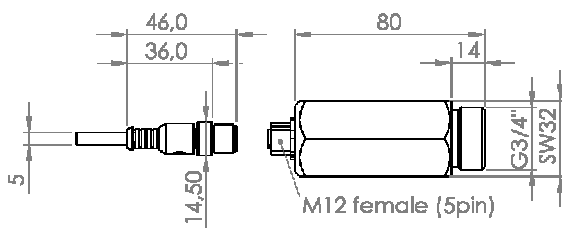


Fig. 2: Dimensions of the UVC-SE sensor

The sensors are calibrated with respect to a PTB (Physikalisch-Technische Bundesanstalt) reference. The electronics integrated in the UVC-SE generate a signal voltage that is transferred to the PLC with low noise by a shielded cable.

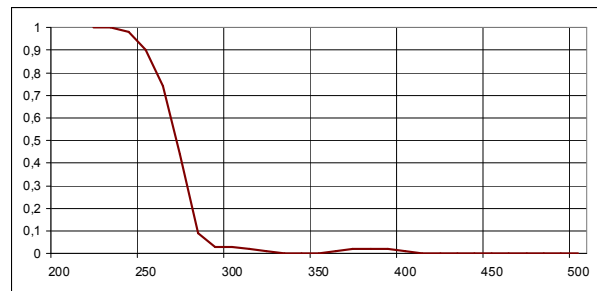


Fig. 3: Spectral sensitivity

Technical Data

Measuring range: 1000 W/m²
 Resolution: 0.5 W/m²
 Spectral range: 180 - 280 nm
 Selectivity: above 280 nm better than 4 %
 for low-pressure mercury lamps, remaining sensitivity around 650 nm

Dimensions: see drawing
 Weight: 420 g
 Pressure: 10 bar max.

Supply voltage: +24V / +12V / ±5V
 Current: <10 mA
 Output signal: 0-10V / 0 - 5V / 0-1V

Housing: stainless steel
 Operating temp.: 0 to 40 °C
 Storage temp.: -10 to 40 °C
 Humidity: < 80%, Non-condensing

Cable: length 2 m M12 connector
 molded on cable with wire ends.
 (Up to 10m length on request)

Part numbers

Sensor UVC-SE for PLC +/- 5V 810351
 Sensor UVC-SE for PLC + 24V 810352
 Sensor UVC-SE for PLC + 12V 810353

