

Radar level sensor



Description

The radar level sensor measures the time it takes a pulse wave to travel in both senses the distance between the sensor and the liquid surface below. A special processing procedure ensures a reliable and precise measure.

The sensor is housed in a case made PVDF which provides a IP66 protection.

The measurement occurs without contact between the sensor and the liquid, and is characterized by the absence of moving mechanical parts, so the radar system does not normally require maintenance.

The transducer is powered by 2 wires on which is generated an output current, in the range 4-20 mA, proportional to the level measurement.

The installation does not require great effort: it is usually mounted on a suitable arm in such a way as to move the transducer from obstacles that could affect the measurement.

Because of the sensor is a non-contact, there is guarantee that the installation is not damaged by objects transported during flood events.



Radar level sensor — mod. PCTSL248



Radar level sensor — installation example

Technical specifications may be varied without prior notice

Technical specifications

Sensor type	Radar pulses
Measuring range	0 ... 8m (PCTSL248) 0 ... 15m (PCTSL249) 0 ... 30m (PCTSL250)
Operating temperature	-40 ... 60°C (PCTSL248) -40 ... 80°C (PCTSL249 - PCTSL250)
Resolution	1mm
Accuracy	≤ 5mm (PCTSL248) ≤ 2mm (PCTSL249 - PCTSL250)
Electrical output	4 ... 20mA on 2 wires
Power supply	12 ... 35Vdc
Power consumption	Max. 22mA
Frequency range	<i>W band</i>
Communication interface	Bluetooth
Indication/calibration	Via app on smartphone or tablet and Bluetooth
Installation	Mounting arm (optional)
Protection rating	IP66/IP68 (3 bar)
Dimensions	65x13x145mm

Ordering codes

Radar level sensor, measurement range 0 - 30m	PCTSL250
Radar level sensor, measurement range 0 - 15m	PCTSL249
Radar level sensor, measurement range 0 - 8m	PCTSL248

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