

preSENSE-MK1 Radar System

Technical Data

Measuring range*	10mm ... 50mm
Measuring accuracy*	± 10 µm (0,01 mm)
Measuring period*	20 ms ... 0,2 ms
Interfaces*	PoE, UART, USB, Open Collector
Ambient temperature	-40°C ... +85°C (in operation)
Storage temperature	-40°C ... +125°C
Relative air humidity	up to 85% (non-condensing)
Supply voltage	4,5V ... 50V
Power consumption	5W
Transmission power*	0,5 mW (-3dBm) ... 2mW (3dBm)
Dimensions	135 x 60 x 60 mm ³

* depends on choosen option

Enter modern radar technology now!

We are happy to demonstrate our sensors to you on-site and implement your application in co-operation with you.

Contact

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MAXIMUM FLEXIBILITY IN ANY ENVIRONMENT

preSENSE-MK1 RADAR



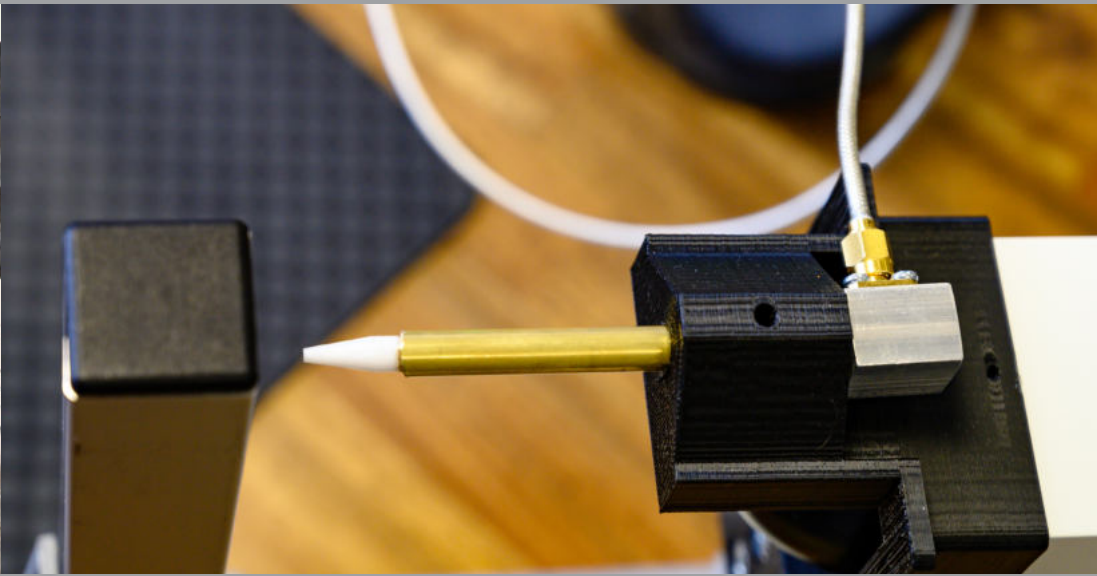
Predictive Maintenance

Fill level surveillance

Process control

Positioning

Close-range Radar measurements under most challenging conditions



PreSENSE Radar System

- Robust design for challenging conditions
- Connection of up to 4 innovative measuring heads
- Contactless measurement
- Compact design
- Measuring accuracy: $\pm 10 \mu\text{m}$

Applications

- Predictive Maintenance
- Fill level measurement
- Position control
- Process automatisaton
- Detection of foreign particles and imperfections in products
- Reliable compliance of tolerance limits
- Wear measurement

Highlights

Our new preSENSE-MK1 radar system supports 4 channel measurements and achieves **measurement accuracies up to ten micrometers.**

By using innovative software and a unique measuring head, preSENSE-MK1 can be used for extreme **close-range measurements** at 10 to 50 mm and allows a compact and flexible system design.

PreSENSE-MK1 can be implemented standalone or as **part of an intelligent sensor network** in combination with our efficient OndoServer software. PreSENSE-MK1 sensors can be integrated into all common control systems.

Simple handling and pre-calibrated sensors as well as our highly motivated support team ensure a smooth start into future oriented radar technology.