



REAL-TIME RADAR ACCURACY & PRECISION

Unparalleled radar technology delivering accurate distance measurements for industrial applications involving both hot and cold steel

ADAPTABLE MEASUREMENT RANGE

Versatile in function, covering a broad spectrum from 200 mm to 25,000 mm, with exceptional micrometer accuracy up to 5,000 mm

DURABLE PERFORMANCE

Crafted to endure, the Distance Sensor Series boasts an IP68/IP69K rating, guaranteeing robustness against dust and water ingress

SEAMLESS SYSTEM INTEGRATION

Effortlessly communicates with Programmable Logic Controllers (PLCs) via Modbus/TCP, ensuring smooth and straightforward integration into existing systems

DESIGNED FOR HARSH ENVIRONMENTS

Engineered to provide reliable performance in challenging conditions such as extreme heat, dust, or aerosols, maintaining accuracy, precision and reliability

Technical Data

This single-sensor solution ensures dependable, real-time radar distance measurements for both hot and cold steel applications.

Measurement principle	FMCW
Centerfrequency, Bandwidth	121.15 GHz ¹ / 122.5 GHz ² 3 GHz, 3 GHz ¹ / 0,9 GHz ²
Transmitting power (max.)	2mW
Measurement rate	75 Hz
Object detection time/ Releasetime	40 ms default
Opening angle	+/- 2°
Operation temperature	-20°C...70°C
Flexible distance to target object	from 200 mm up to 25,000mm ³
Power consumption (typ.)	6 Watt
Interfaces	1x RJ-45 with PoE
Communication	ModbusTCP interface, 2x Relay-contacts
Power supply	*PoE
Housing material	Aluminum alloy or Stainless Steel
Front plate	PTFE ⁴
Certification	FCC ¹ , CE ²
Housing protection	IP68/IP69K
Sensor Dimensions	131 x 130 x 74,5 mm
Sensor Weight	1.500 g ⁵
Mounting	4x M6x1 depth 8 on the backside 2x M6x1 depth 6 on the bottom

1 FCC version 2 CE version 3 accuracy decreases over distance 4 stable up to 260°C 5 AI- housing