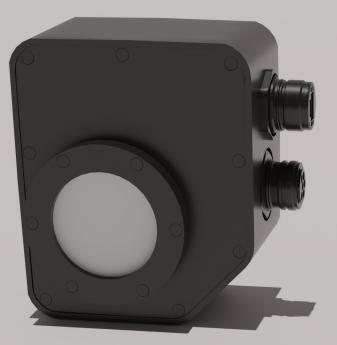


Technical File for Scout Sensor Series English language



### **ADVANCED RADAR-BASED DETECTION**

Employs cutting-edge radar technology to detect both hot and cold metal materials, ensuring swift and reliable real-time detection even amidst obstacles like steam and dirt

scout sensor series

## **FLEXIBLE DISTANCE RANGE**

Capable of detecting objects within a flexible distance range from 200 mm up to 5000 mm, adapting to various industrial settings and requirements

#### **COMPACT & VERSATILE INSTALLATION**

Features a compact design for space-constrained environments and includes multiple drillings for straightforward installation

#### **SEAMLESS PLC INTEGRATION**

Communicates effortlessly with Programmable Logic Controllers (PLCs) via Modbus/TCP, facilitating easy integration into existing systems

## **DURABLE PERFORMANCE**

Designed to perform accurately with minimal maintenance, even in adverse conditions such as extreme temperatures, dust, and aerosols. Boasts an IP68 rating for enhanced protection

# **Technical Data**

Provides flexible both hot and cold metal material detection reliably and swiftly in real-time contending with obstacles like fog, dirt, or cooling water.

| Measurement principle              | FMCW  |
|------------------------------------|---|
| Centerfrequency, Bandwidth         | 121.15 $\text{GHz}^1$ / 122.5 $\text{GHz}^2$ 3 $\text{GHz}$ , 3 $\text{Ghz}^1$ / 0,9 $\text{GHz}^2$ |
| Transmitting power (max.)          | 2mW   |
| Measurement rate                   | 75 Hz   |
| Object detection time/ Releasetime | 40 ms default   |
| Opening angle                      | +/- 2°  |
| Operation temperature              | -20°C70°C   |
| Distance to detection object       | from 200 mm up to 5,000 mm  |
| 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 <sup>3</sup>   |
| Certification                      | FCC <sup>1</sup> , CE <sup>2</sup>  |
| Housing protection                 | IP68/IP69K  |
| Sensor Dimensions                  | 131 x 130 x 74,5 mm   |
| Sensor Weight                      | 1.500 g <sup>4</sup>  |
| Mounting                           | 4x M6x1 depth 8 on the backside<br>2x M6x1 depth 6 on the bottom                                    |