Baumer
Passion for Sensors

Laser Distance Measurement

Overview

Triangulation-based **Laser Distance Sensors** offer a **smart** solution for **very precise and fast distance measurement** on a large variety of objects.

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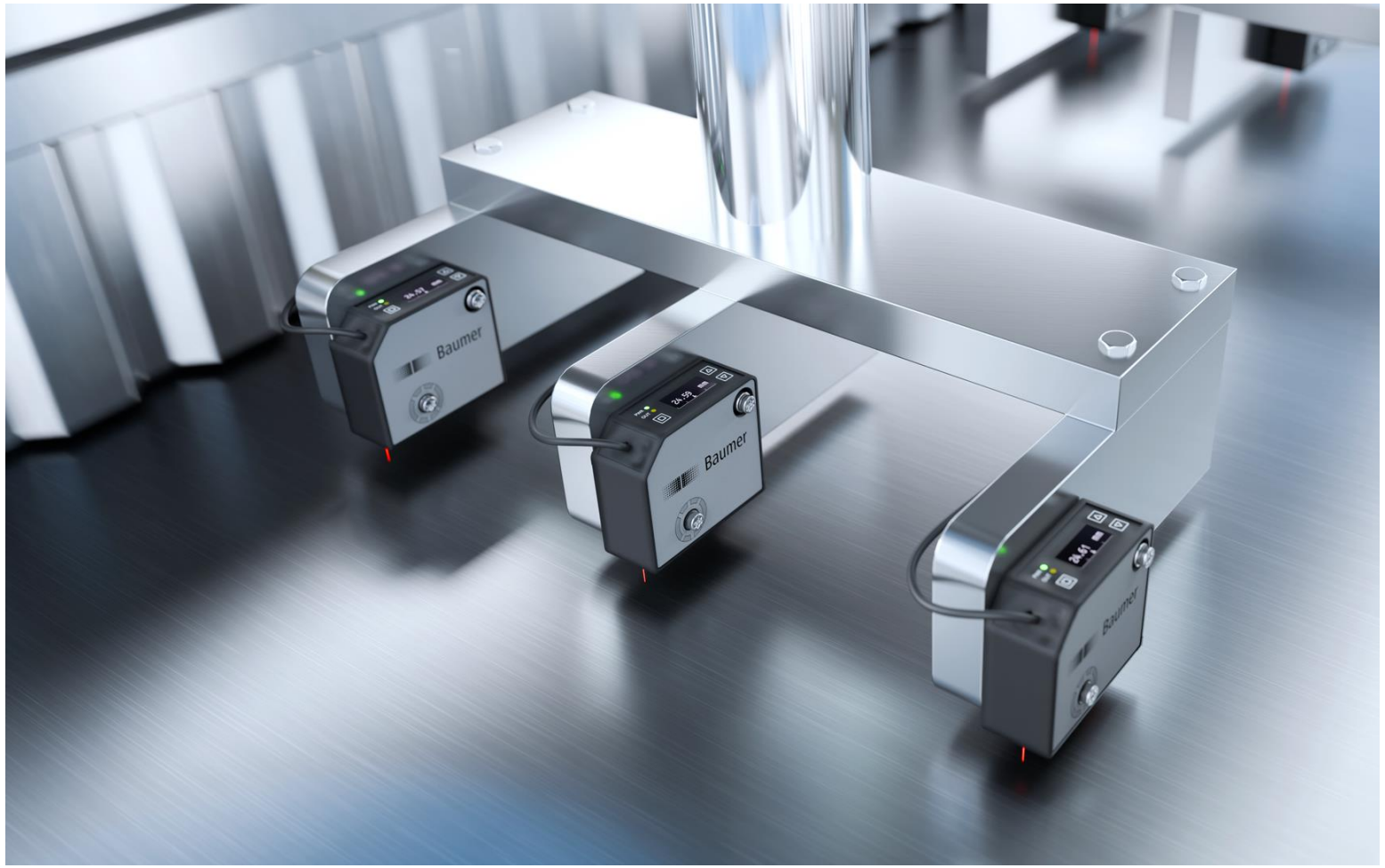
Precise and fast
Precision < ± 3 µm
Measurement rate up to 5 kHz

Easy-to-use
Parametrization via Baumer Sensor Suite or web interface

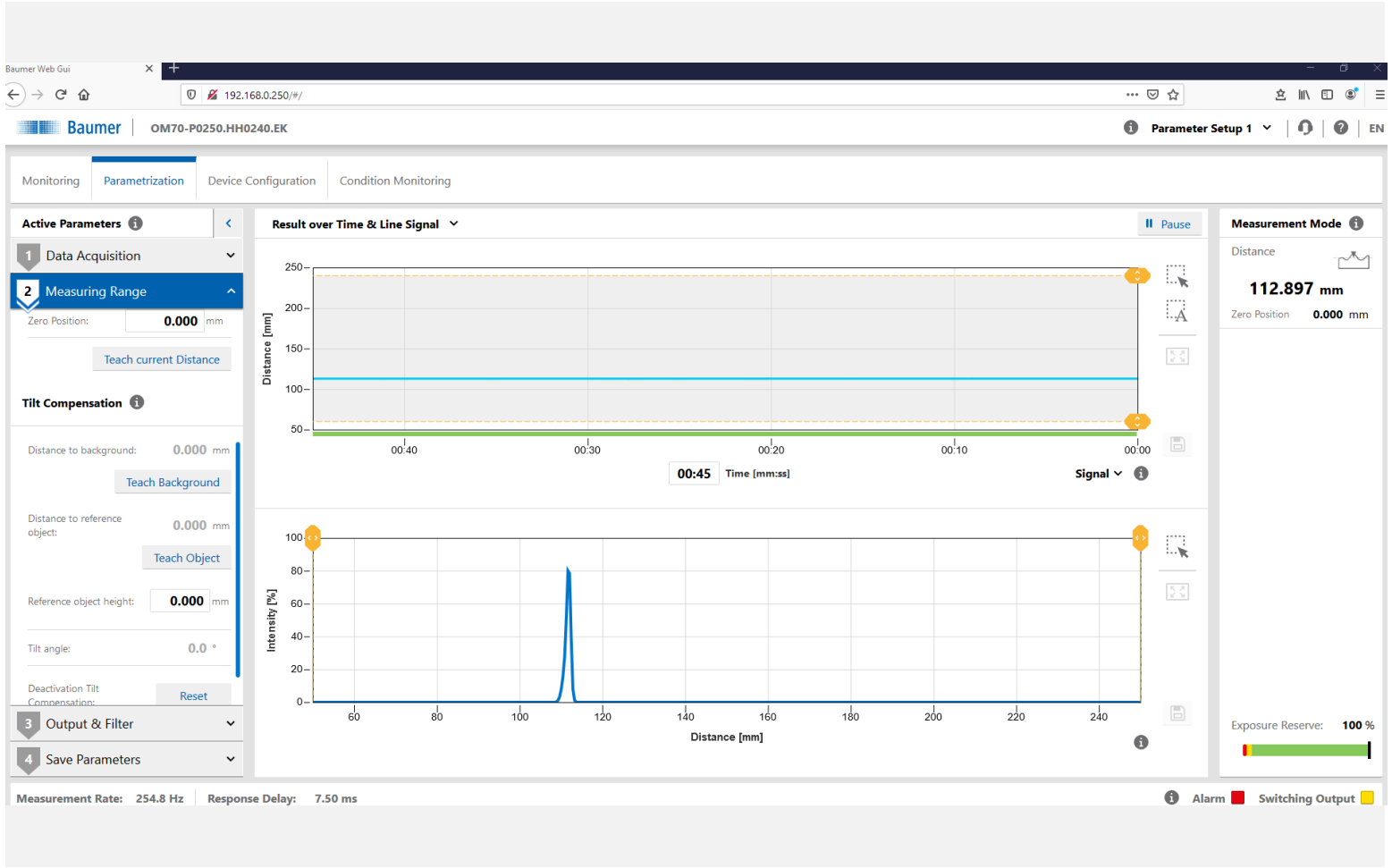
Smart
Additional data like exposure reserve, enabling Condition Monitoring

Best-in-class Precision



- Precision on structured surfaces with line beam shape
- Stable signal even with very little light, e.g. when measuring on shiny surfaces
- Best-in-class ambient light immunity

Easy-to-use



- Get up and running immediately with an intuitive user interface
- “See what the sensor sees”: parametrize the sensor for optimal performance

Smart functions

- Exposure reserve and signal quality information help avoid unplanned downtimes
- Additional data available via IO Link, Ethernet or RS485 interfaces

Portfolio Overview

OM20 / OM30

- The most compact form factor in the market
- Repeat accuracy up to 1 µm and linearity deviation of < ±0.08 %
- Measuring distances from 16 mm to 550 mm
- Analog, IO-Link and RS485 interfaces available

OM60

- Highest precision in its class
- Repeat accuracy up to 0.12 µm and linearity deviation of < ±0.03 %
- Measuring distances from 20 mm to 1000 mm
- Analog, IO-Link and RS485 interfaces available

OM70

- Integrated web interface and Ethernet protocols
- Repeat accuracy up to 0.3 µm and linearity deviation of < ±0.06%
- Measuring distances from 30 mm to 1700 mm
- PROFINET, EtherNet/IP, OPC UA, Modbus, etc.