# OT series – ToF sensors

## All-rounders with time-of-flight technology

### Reliability

- Dependable object detection, even on challenging surfaces such as ultra-black, reflective or glossy materials
- Consistent performance independent of shape and structure

### Best-in-class usability

- 3D CAD data with integrated beam path, for fast and easy design-in
- *qTeach*® reproducible functionality for a wear-free teach-in procedure, allowing a flexible and accurate adjustment of sensors
- Intuitive Baumer Sensor Suite software for easy parametrization

### TCO savings

- *SmartReflect*® – light barrier without reflector
- Saves time and costs during installation and maintenance by omitting the reflector

### *proTect+*® for long-term impermeability

- Our hygienic and washdown sensors are developed and tested to guarantee outstanding impermeability over their entire service life

## OT series portfolio at a glance

| | OT200 | OT330 | OT300 | OT500 |
|---|---|---|---|---|
| **General data** | | | | |
| Measuring / Sensing distance | 0 ... 2.0 m | 0 ... 2.5 m | 0.1 ... 1.8 m | 0.15 ... 2.5 m |
| Light source | Infrared laser, laser class 1 | | Red laser, laser class 1 | |
| Repeatability | 1.25 ... 1.5 mm | 2.0 ... 1.5 mm | 1.4 ... 5.5 mm | 1.2 ... 4.3 mm |
| Linearity error | ± 10 mm | | | |
| **Electrical data** | | | | |
| Response / Release time | High speed mode: 25 ms<br>Standard mode: 50 ms<br>High accuracy mode: 200 ms | | High speed mode: < 4 ms<br>Standard mode: < 8 ms<br>Long range mode: < 50 ms | |
| Output circuit | PNP / NPN / push-pull | PNP / NPN / push-pull analog 0 - 10 VDC | PNP / NPN / push-pull analog 0 - 10 VDC | PNP / NPN / push-pull analog 0 - 10 VDC & 4 - 20 mA |
| Interface | IO-Link 1.1.4 | IO-Link 1.1.4 with dual channel | IO-Link 1.1.3 | IO-Link 1.1.3 with dual channel |
| **Mechanical data** | | | | |
| Connection | Cable or M8 flylead | Cable, M8 connector, M8 or M12 flylead | Cable or M8 connector [1] | M12 connector [2] |
| Mounting | Smooth sleeves or threaded sleeves M3 | Smooth sleeves or threaded sleeves M3 | Smooth sleeve | Smooth sleeve |
| **Ambient conditions** | | | | |
| Operating temperature | -30 ... +50 °C [3] | -30 ... +55 °C [3] | -10 ... +50 °C | |
| Protection class | IP67 | | Plastic housing: IP67<br>Stainless steel washdown design: IP68/69K & *proTect+*®<br>Stainless steel hygienic design: IP68/69K & *proTect+*® | |

[1] OT300H comes with cable or flylead M8        [2] OT500H comes with cable or flylead M12        [3] only applicable for OT200 flylead and OT330 connector

## Baumer
### Passion for Sensors

More information at:
www.baumer.com/OT