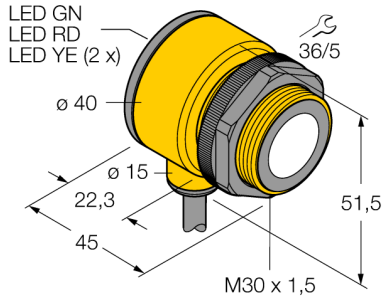
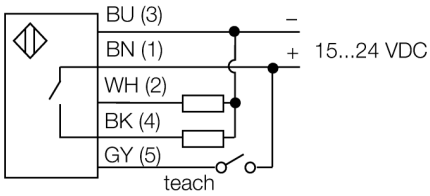
# Ultrasonic sensor
# diffuse mode sensor
# T30UUPB

Industrial Automation




- **Compact design**
- **Cable, 2 m**
- **Operating voltage 15…24 VDC**
- **PNP transistor output and analog output for voltage**
- **Measuring range adjustable via teach-in**

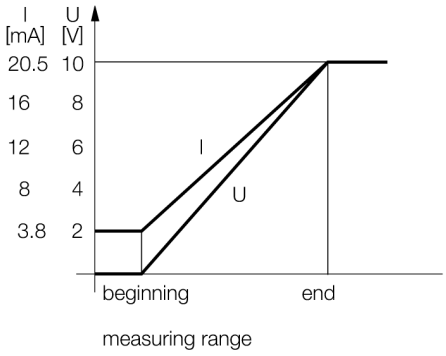
### Wiring diagram




| | |
|---|---|
| **Type code** | T30UUPB |
| Ident no. | 3055992 |
| **Design** | cylindrical/threaded, T30 |
| Dimensions | Ø40 x 45 mm |
| Housing material | plastic, Polyester |
| Connection | cable, 2 |
| Protection class | IP67 |
| Ambient temperature | -20…+70 °C |
| MTTF | 246 years |
| MTTF note | acc. to SN 29500 (Ed. 99) 40 °C |
| **Power-on indication** | LED |
| Switching state | LED yellow |
| **Operating voltage** | 15…24VDC |
| Output function | NO contact, PNP/analog output |
| Voltage output | 0…10V |
| Switching frequency | 10 Hz |
| Hysteresis | ≤ 2.5 mm |
| **Operating mode** | diffuse mode ultrasonic sensor |
| Range | 30…200 cm |
| Ultrasound frequency | 120 kHz |
| Repeatability | ≥ ± 0.75 mm |

### Functional principle

Ultrasonic sensors detect a multitude of objects contactless and wear-free with ultrasonic waves. Regardless of whether the object is transparent or opaque, metallic or non-metallic, liquid, solid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function.

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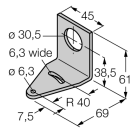
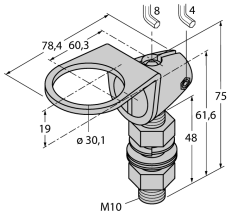
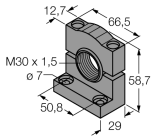
## Accessories

| Type code | Ident no. | Description | Dimension drawing |
|---|---|---|---|
| SMB30A | 3032723 | Mounting bracket, stainless steel, for sensors with 30 mm thread |  |
| SMB30FAM10 | 3011185 | Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm |  |
| SMB30SC | 3052521 | Mounting bracket, PBT black; for 30 mm thread; with 4 screws M5 x 0.8 |  |

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