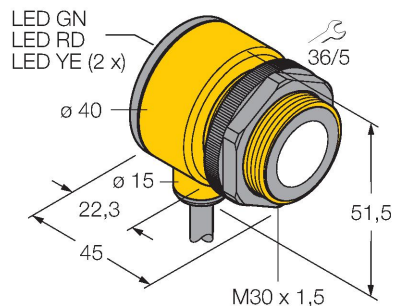


# T30UXUB

## Ultrasonic Sensor – diffuse mode sensor With Analog Output



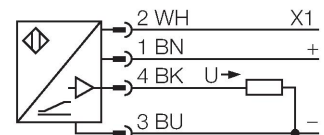
### Technical data

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Type                                 | T30UXUB                           |
| ID                                   | 3080468                           |
| <b>Ultrasonic data</b>               |                                   |
| Function                             | Proximity switch                  |
| Range                                | 200...2000 mm                     |
| Ultrasound frequency                 | 174 kHz                           |
| Repeatability                        | $\leq \pm 1$ mm                   |
| Temperature drift                    | $\leq 0.02$ % of full scale/K     |
| Edge lengths of the nominal actuator | 100 mm                            |
| <b>Electrical data</b>               |                                   |
| Operating voltage $U_B$              | 10...30 VDC                       |
| Response time typical                | $< 92$ ms                         |
| Readiness delay                      | $\leq 500$ ms                     |
| Output function                      | Analog output                     |
| Voltage output                       | 0...10 V                          |
| Hysteresis                           | $\leq 3$ mm                       |
| Short-circuit protection             | yes/Cyclic                        |
| Reverse polarity protection          | Complete                          |
| Wire breakage protection             | yes                               |
| <b>Mechanical data</b>               |                                   |
| Design                               | Tube, T30U                        |
| Radiation direction                  | straight                          |
| Dimensions                           | $\varnothing 40 \times 45$ mm     |
| Housing material                     | Plastic, PBT                      |
| Transducer material                  | Plastic, Epoxyd resin and PU foam |

### Features

- Compact design
- Cable, 4-pin, 2 m
- Analog output 0...10 V
- Response time adjustable
- Integrated temperature compensation
- Measuring range adjustable via teach-in
- Blind zone: 20 cm
- Range: 200 cm

### Wiring diagram

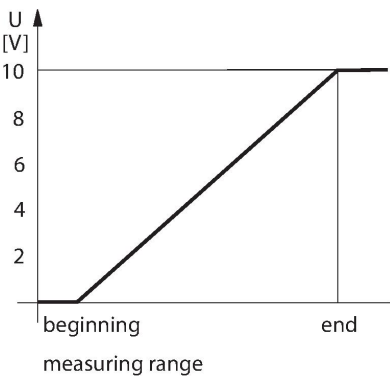


### Functional principle

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.

Technical data

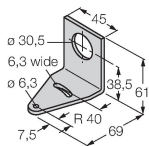
|                       |                  |
|-----------------------|------------------|
| Electrical connection | Cable, 2 m, PVC  |
| Ambient temperature   | -40...+70 °C     |
| Relative humidity     | 95 %             |
| Protection class      | IP67             |
| Power-on indication   | LED              |
| Object detected       | LED, Red         |
| Tests/approvals       |                  |
| Approvals             | CE, cULus listed |



Accessories

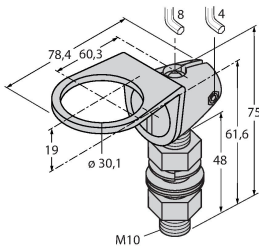
SMB30A3032723

Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



SMB30FAM103011185

Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm



SMB30SC3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

