

# T30UXDBQPMA Ultrasonic Sensor – diffuse mode sensor With Switching Outputs

### Technical data

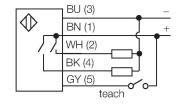
| Туре                                 | T30UXDBQPMA                                |
|--------------------------------------|--------------------------------------------|
| ID                                   | 3080062                                    |
| Ultrasonic data                      |                                            |
| Function                             | Proximity switch                           |
| Range                                | 2002000 mm                                 |
| Ultrasound frequency                 | 174 kHz                                    |
| Repeatability                        | ≤ ± 1 mm                                   |
| Temperature drift                    | ≤ 0.02 % of full scale/K                   |
| Edge lengths of the nominal actuator | 100 mm                                     |
| Electrical data                      |                                            |
| Operating voltage U <sub>B</sub>     | 1030 VDC                                   |
| Response time typical                | < 92 ms                                    |
| Readiness delay                      | ≤ 500 ms                                   |
| Output function                      | 2 x NO contact, PNP                        |
| Switching frequency                  | ≤ 10 Hz                                    |
| Hysteresis                           | ≤ 3 mm                                     |
| Short-circuit protection             | yes/Cyclic                                 |
| Reverse polarity protection          | Complete                                   |
| Wire breakage protection             | yes                                        |
| Mechanical data                      |                                            |
| Design                               | Tube, T30U                                 |
| Radiation direction                  | straight                                   |
| Dimensions                           | Ø 40 x 45 mm                               |
| Housing material                     | Plastic, PBT                               |
| Transducer material                  | Plastic, Epoxyd resin and PU foam          |
| Electrical connection                | Cable with connector, M12 × 1, 0.15 m, PVC |
| Ambient temperature                  | -40+70 °C                                  |
| Relative humidity                    | 95 %                                       |
| Protection class                     | IP67                                       |
| Power-on indication                  | LED                                        |
| Switching state                      | LED, Yellow                                |
| Object detected                      | LED, Red                                   |
| Tests/approvals                      |                                            |
| Approvals                            | CE, cULus listed                           |



### **Features**

- Compact design
- Connection via male M12 x 1, 4-pin with 150 mm cable
- Operating voltage 12...24 VDC
- Two PNP transistor outputs
- Two independent switching ranges adjustable via button or control line
- ■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.



## Accessories

SMB30A 3032723

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





SMB30FAM10

3011185

Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30  $^{\rm mm}$ 

SMB30SC 3052521

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

