

T30UXDAQPMA

Ultrasonic Sensor – diffuse mode sensor

With Switching Output

Technical data

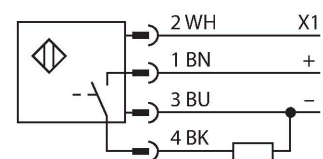
Type	T30UXDAQPMA
ID	3079997
Ultrasonic data	
Function	Proximity switch
Range	100...1000 mm
Ultrasound frequency	224 kHz
Repeatability	$\leq \pm 0.5$ mm
Temperature drift	≤ 0.02 % of full scale/K
Edge lengths of the nominal actuator	100 mm
Electrical data	
Operating voltage	10...30 VDC
Response time typical	< 45 ms
Readiness delay	≤ 500 ms
Output function	NO contact, PNP
Switching frequency	≤ 10 Hz
Hysteresis	≤ 2 mm
Short-circuit protection	yes / Cyclic
Reverse polarity protection	Complete
Wire breakage protection	yes
Mechanical data	
Design	Tube, T30U
Radiation direction	straight
Dimensions	$\varnothing 40 \times 45$ mm
Housing material	Plastic, PBT
Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Cable with connector, M12 $\times$ 1, 0.15 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



Features

- Compact design
- Connection via male M12 x 1, 4-pin with 150 mm cable
- Switching output, PNP/NPN adjustable
- NO/NC adjustable
- Integrated temperature compensation
- Switching range adjustable via button or control line
- Blind zone: 10 cm
- Range: 100 cm

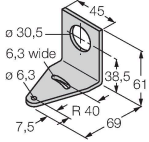
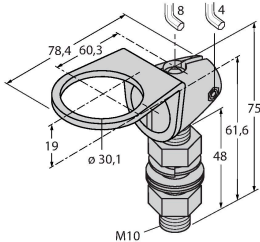
Wiring diagram



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 mm	
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	