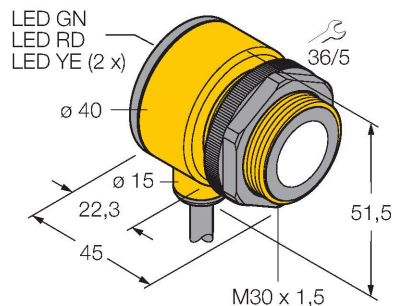


T30UXDB

Ultrasonic Sensor – diffuse mode sensor With Switching Output



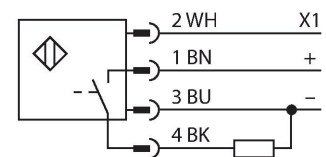
Technical data

Type	T30UXDB
ID	3079998
Ultrasonic data	
Function	Proximity switch
Range	200...2000 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_B	10...30 VDC
Response time typical	< 92 ms
Readiness delay	≤ 500 ms
Output function	NO contact, PNP
Switching frequency	≤ 5 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

Features

- Compact design
- Cable, 4-pin, 2 m
- Switching output, PNP/NPN adjustable
- NO/NC adjustable
- Integrated temperature compensation
- Switching range adjustable via button or control line
- Blind zone: 20 cm
- Range: 200 cm

Wiring diagram



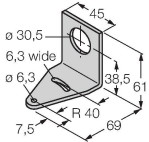
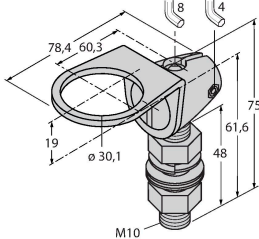
Functional principle

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.

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

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			
