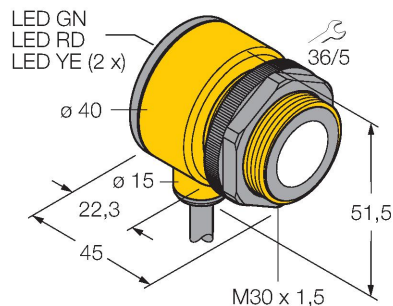


T30UXIB

Ultrasonic Sensor – diffuse mode sensor With Analog Output



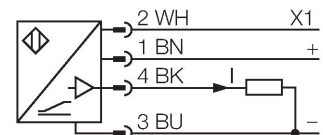
Technical data

Type	T30UXIB
ID	3080484
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	10...30 VDC
Load resistance	≤ 1000 Ω
Response time typical	< 92 ms
Readiness delay	≤ 500 ms
Output function	Analog output
Current output	4...20 mA
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

Features

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

Wiring diagram

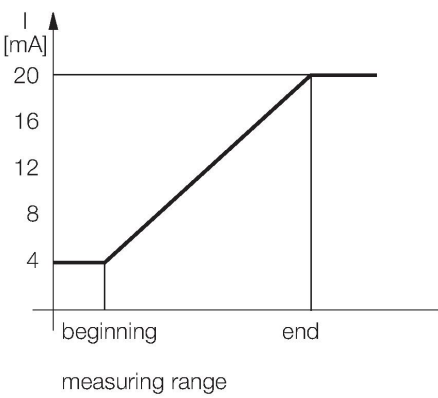


Functional principle

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

Transducer material	Plastic, Epoxyd resin and PU foam
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

Technical drawing of the SMB30A mounting bracket. It is a rectangular stainless steel bracket designed for sensors with a 30mm thread. The drawing shows various dimensions: a top width of 45, a central hole diameter of 30.5, a hole offset of 6.3, a mounting hole diameter of 6.3, a mounting hole offset of 33.5, a total height of 61, a base width of 7.5, a rounded corner with radius R 40, and a total length of 69.

SMB30FAM10

3011185

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

Technical drawing of the SMB30FAM10 mounting bracket. It is a stainless steel bracket for M10 x 1.5 thread sensors. The drawing shows dimensions: a top width of 78.4, a central hole diameter of 30.1, a hole offset of 60.3, a mounting hole diameter of 18, a mounting hole offset of 4, a total height of 75, a base width of 19, a mounting hole offset of 61.6, a base width of 48, and an M10 thread.

SMB30SC

3052521

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

Technical drawing of the SMB30SC mounting bracket. It is a black PBT rotatable bracket for sensors with a 30 mm thread. The drawing shows dimensions: a top width of 12.7, a central hole diameter of 30, a hole offset of 66.5, a mounting hole diameter of 7, a mounting hole offset of 58.7, a total height of 29, a base width of 50.8, and an M30 x 1.5 thread.