

T30UINB

Ultrasonic Sensor – diffuse mode sensor

With Analog Output



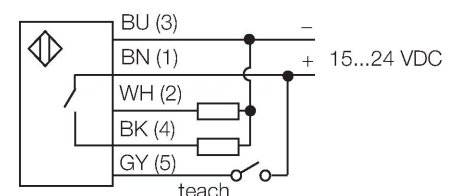
Technical data

Type	T30UINB
ID	3055983
Ultrasonic data	
Function	Proximity switch
Range	300...2000 mm
Ultrasound frequency	128 kHz
Repeatability	≤ ± 0.75 mm
Temperature drift	≤ 0.2 % of full scale/K
Electrical data	
Operating voltage	15...24 VDC
Response time typical	< 96 ms
Output function	NO contact, PNP/Analog output
Current output	4...20 mA
Switching frequency	≤ 10 Hz
Hysteresis	≤ 2.5 mm
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, 2 m, PVC
Ambient temperature	-20...+70 °C
Relative humidity	100 %
Protection class	IP67

Features

- Compact design
- Cable, 2 m
- Operating voltage 15...24 VDC
- PNP transistor output and analog output for current
- Measuring range adjustable via teach-in
- Blind zone: 30 cm
- Range: 200 cm

Wiring diagram

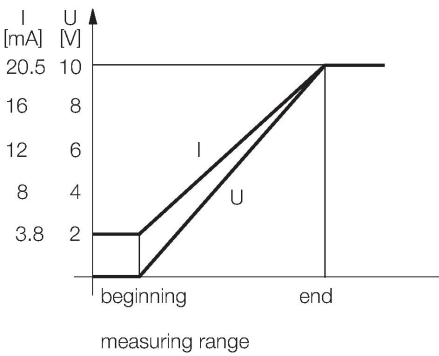


Functional principle

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

Power-on indication	LED
Switching state	LED, Yellow
Object detected	LED, Red
Tests/approvals	
MTTF	246 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE



Accessories

SMB30A3032723

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

Technical drawing of the SMB30A mounting bracket. Dimensions include: 45 (height), 6.3 (width), 38.5 (height to mounting hole), 61 (total height), 7.5 (base thickness), R 40 (radius), 69 (base width), 30.5 (hole diameter), 6.3 wide (flange width), and 6.3 (flange thickness).

SMB30FAM103011185

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

Technical drawing of the SMB30FAM10 mounting bracket. Dimensions include: 78.4 (width), 60.3 (width to mounting hole), 19 (hole offset), 30.1 (hole diameter), 75 (height), 61.6 (height to mounting hole), 48 (height to base), and M10 (thread).

SMB30SC3052521

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

Technical drawing of the SMB30SC mounting bracket. Dimensions include: 12.7 (height), 66.5 (width), 58.7 (height to mounting hole), 29 (base thickness), 50.8 (base width), 7 (flange thickness), and M30 x 1.5 (thread).