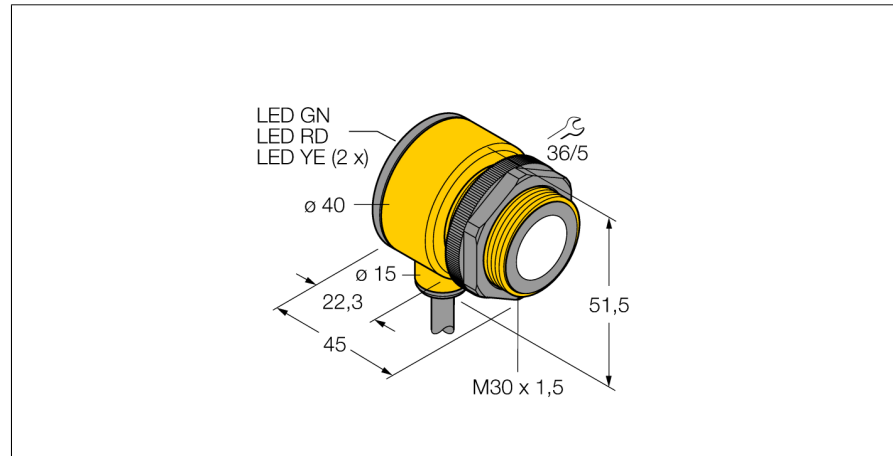
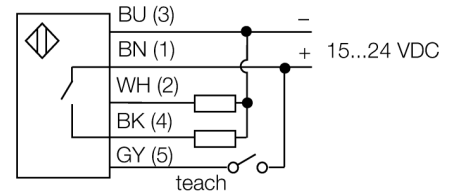


**Ultrasonic sensor
diffuse mode sensor
T30UIPB**



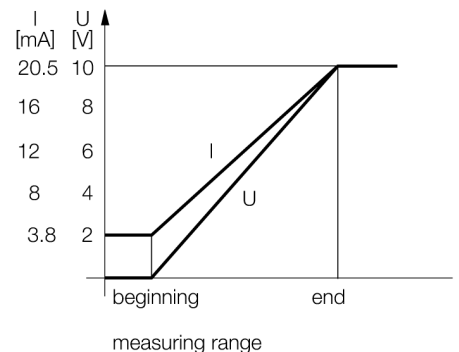
- Compact design
- Cable, 2 m
- Operating voltage 15...24 VDC
- PNP transistor output and analog output for current
- Measuring range adjustable via teach-in

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.



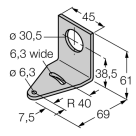
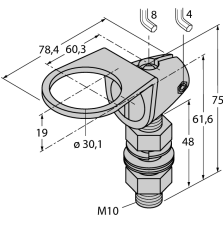
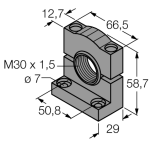
Type code	T30UIPB
Ident no.	3055980
Design	cylindrical/threaded, T30
Dimensions	Ø40 x 45 mm
Housing material	plastic, Polyester
Connection	cable, 2
Protection class	IP67
Ambient temperature	-20...+70 °C
MTTF	246 years
MTTF note	acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED
Switching state	LED yellow
Operating voltage	15...24VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 50 mA
Output function	NO contact, PNP/analog output
Current output	4...20mA
Switching frequency	10 Hz
Hysteresis	≤ 2.5 mm
Voltage drop at I ₀	≤ 1.5 V
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Wire breakage protection	yes
Operating mode	diffuse mode ultrasonic sensor
Range	30...200 cm
Ultrasound frequency	120 kHz
Repeatability	≥ ± 0.75 mm

**Ultrasonic sensor
diffuse mode sensor
T30UIPB**

TURCK

Industrial
Automation

Accessories

Type code	Ident no.	Description	Dimension drawing
SMB30A	3032723	Mounting bracket, stainless steel, for sensors with 30 mm thread	 <p>Technical drawing of the SMB30A mounting bracket. Dimensions include: top width 45, hole diameter $\varnothing 30,5$, hole offset 6,3, hole width 6,3, hole diameter $\varnothing 6,3$, hole offset 38,5, hole diameter $\varnothing 6,3$, hole offset 61, hole diameter $\varnothing 7,5$, hole offset 69, and a radius R 40.</p>
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	 <p>Technical drawing of the SMB30FAM10 mounting bracket. Dimensions include: top width 78,4, hole diameter $\varnothing 60,3$, hole offset 19, hole diameter $\varnothing 30,1$, hole offset 75, hole diameter $\varnothing 61,6$, hole offset 48, and a thread of M10.</p>
SMB30SC	3052521	Mounting bracket, PBT black; for 30 mm thread; with 4 screws M5 x 0.8	 <p>Technical drawing of the SMB30SC mounting bracket. Dimensions include: top width 12,7, hole diameter $\varnothing 66,5$, hole offset 58,7, hole diameter $\varnothing 7$, hole offset 50,8, and a width of 29.</p>