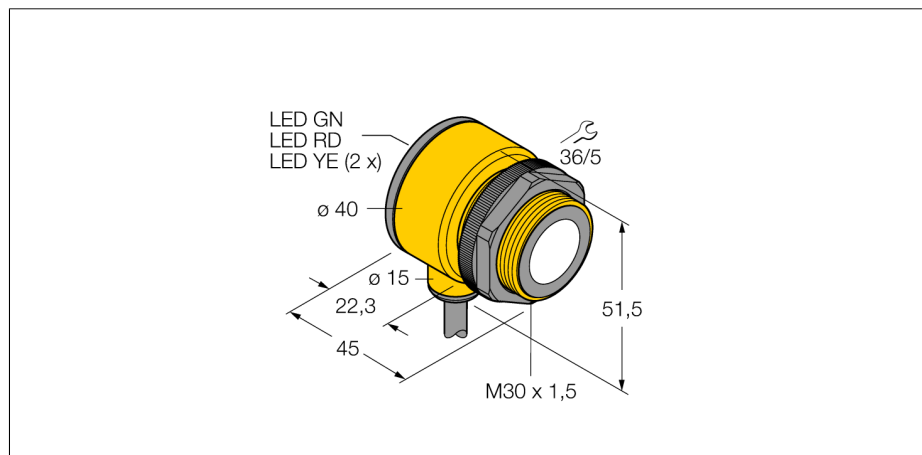


**ultrasonic sensor
diffuse mode sensor
T30UXDA**

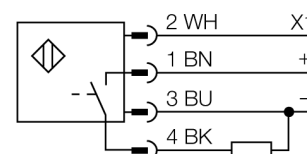
TURCK

Industrial
Automation



- compact housing style
- 4-pole cable, 2m
- Switching output, pnp/npn adjustable
- NO/NC adjustable
- Integrated temperature compensation
- Switching range adjustable via button or control line

Wiring diagram



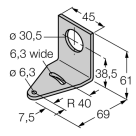
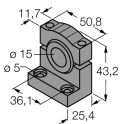
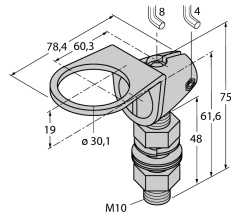
Functional principle

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of many objects. Regardless of whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistency. Even environmental conditions such as spray, dust or rain hardly affect their function.

Type code	T30UXDA
Ident no.	3079993
Design	cylindrical/threaded, T30U
Dimensions	Ø40x 45 mm
Housing material	Plastic, Polyester
Connection	cable, 2
Protection class	IP67
Ambient temperature	-40...+70 °C
Operating voltage	LED
Operating voltage	10...30VDC
Response time	45 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
Range	10...100 cm
Ultrasound frequency	224 kHz
Repeatability	≥ ± 0.5 mm
Edge lengths of the nominal actuator	100 mm

ultrasonic sensor
diffuse mode sensor
T30UXDA

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 mm, hole diameter $\varnothing 30,5$ mm, hole offset 6,3 mm, hole diameter $\varnothing 6,3$ mm, hole depth 38,5 mm, hole offset from bottom 6,1 mm, bottom width 7,5 mm, and a radius of R 40 mm.</p>
SMB1815SF	3053279	Mounting bracket, PBT black, for PICO-GUARD points	 <p>Technical drawing of the SMB1815SF mounting bracket. Dimensions include: top width 11,7 mm, top length 50,8 mm, hole diameter $\varnothing 15$ mm, hole offset 6,5 mm, bottom width 36,1 mm, and bottom length 25,4 mm.</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 mm, hole diameter $\varnothing 60,3$ mm, hole offset 19 mm, hole diameter $\varnothing 30,1$ mm, top length 8 mm, top offset 4 mm, total height 75 mm, and mounting thread length 48 mm. The thread is labeled M10.</p>