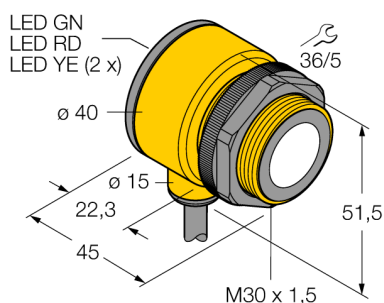


Ultrasonic Sensor

diffuse mode sensor

With Analog Output

T30UIPB-CRFV



Type	T30UIPB-CRFV
ID	3074840

Ultrasonic data	
Function	Proximity switch
Range	300...1000 mm
Ultrasound frequency	128 kHz
Repeatability	$\leq \pm 0.75$ mm

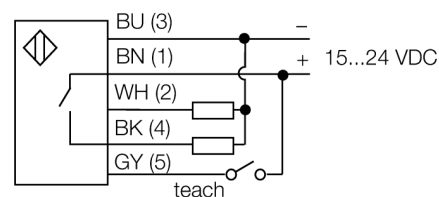
Electrical data	
Operating voltage U_s	15...24 VDC
Response time typical	< 96 ms
Output function	NO contact, PNP/Analog output
Current output	4...20 mA
Switching frequency	≤ 20 Hz
Hysteresis	≤ 2.5 mm

Mechanical data	
Design	Tube, T30U
Radiation direction	straight
Dimensions	$\varnothing 40 \times 45$ mm
Housing material	Plastic, PBT
Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Cable, 2 m, PVC
Ambient temperature	-20...+70 °C
Protection class	IP67
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

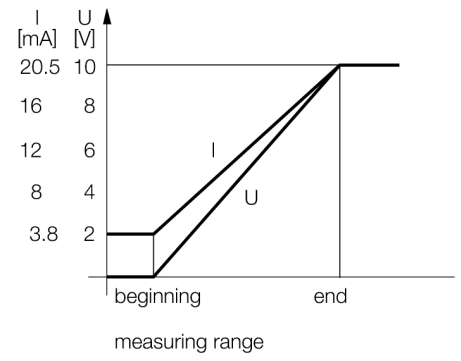
- Compact design
- Cable, 2 m
- Operating voltage 15...24 VDC
- PNP transistor output and analog output for current
- Measuring range adjustable via teach-in
- Blind zone: 30 cm
- Range: 200 cm

Wiring Diagram

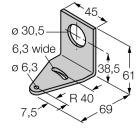
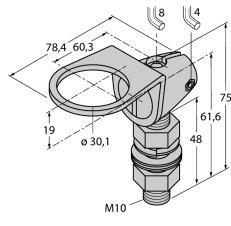


Functional principle

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.



Accessories

Type code	Ident no.		Dimension drawing
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	