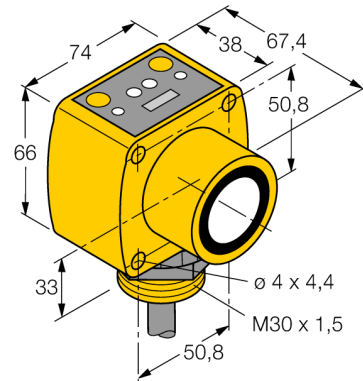


Ultrasonic Sensor

diffuse mode sensor

With Analog Output

QT50ULB W/30



Type	QT50ULB W/30
ID	3002729

Ultrasonic data	
Function	Proximity switch
Range	200...8000 mm
Ultrasound frequency	75 kHz
Repeatability	$\leq \pm 1$ mm
Edge lengths of the nominal actuator	500 mm

Electrical data	
Operating voltage U_s	10...30 VDC
Response time typical	< 100 ms
Readiness delay	≤ 1500 ms
Current output	4...20 mA
Voltage output	0...10 V
Short-circuit protection	yes

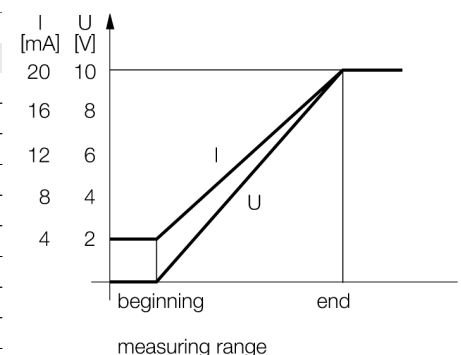
Mechanical data	
Design	Rectangular, QT50U
Radiation direction	straight
Housing material	Plastic, PBT
Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Cable, 9 m, PVC
Ambient temperature	-20...+70 °C
Storage temperature	-40...+90 °C
Protection class	IP67
Power-on indication	LED, Green
Object detected	LED, Red

Tests/approvals	
MTTF	131 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

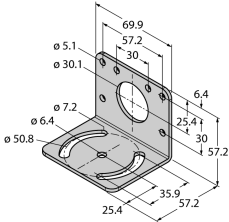
- LED indicates signal intensity
- Cable, PVC, 2 m, 5-wire
- Temperature compensation selectable via DIP switch
- Blind zone: 20 cm
- Range: 800 cm

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	
SMB30MM	3027162	Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment	
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	