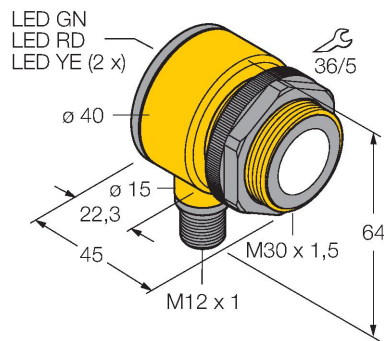


T30UXIAQ8

Ultrasonic Sensor – diffuse mode sensor With Analog Output



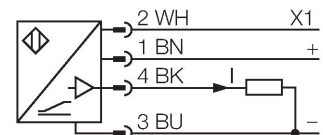
Technical data

Type	T30UXIAQ8
ID	3080481
Ultrasonic data	
Function	Proximity switch
Range	100...1000 mm
Ultrasound frequency	224 kHz
Repeatability	≤ ± 0.5 mm
Temperature drift	≤ 0.02 % of full scale/K
Edge lengths of the nominal actuator	100 mm
Electrical data	
Operating voltage U_B	10...30 VDC
Load resistance	≤ 1000 Ω
Response time typical	< 45 ms
Readiness delay	≤ 500 ms
Output function	Analog output
Current output	4...20 mA
Hysteresis	≤ 2 mm
Short-circuit protection	yes/Cyclic
Reverse polarity protection	Complete
Wire breakage protection	yes
Mechanical data	
Design	Tube, T30U
Radiation direction	straight
Dimensions	Ø 40 x 45 mm
Housing material	Plastic, PBT

Features

- Compact design
- Cable with male end M12 x 1, 4-pin
- Analog output 4...20 mA
- Response time adjustable
- Integrated temperature compensation
- Measuring range adjustable via teach-in
- Blind zone: 10 cm
- Range: 100 cm

Wiring diagram

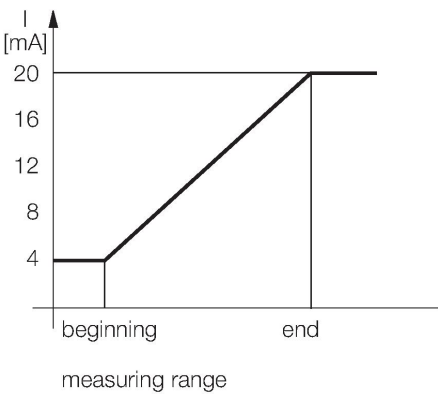


Functional principle

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

Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Connector, M12 × 1, PVC
Ambient temperature	-40...+70 °C
Relative humidity	95 %
Protection class	IP67
Power-on indication	LED
Object detected	LED, Red
Tests/approvals	
Approvals	CE, cULus listed



Accessories

SMB30A3032723

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

SMB30FAM103011185

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

SMB30SC3052521

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

Accessories

Dimension drawing	Type	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

Dimension drawing	Type	ID	
	RKS4.5T-2/TEL	6626361	Connection cable, M12 female connector, straight, 5-pin, cable length: 2 m, jacket material: PVC, black; shielded; cULus approval
	WKS4.5T-2/TEL	6626364	Connection cable, M12 female connector, angled, 5-pin, cable length: 2 m, jacket material: PVC, black; shielded; cULus approval