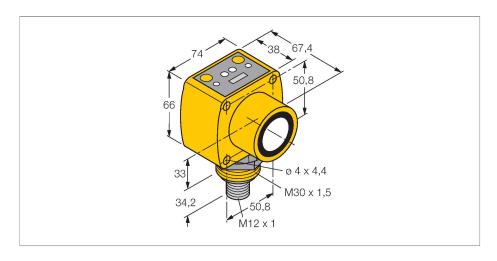


# QT50UDBQ6-CRFV Ultrasonic sensor – diffuse mode sensor



#### Technical data

Туре	QT50UDBQ6-CRFV		
ID	3077351		
Ultrasonic data			
Function	Proximity switch		
Range	2006000 mm		
Ultrasound frequency	75 kHz		
Repeatability	≤ ± 1 mm		
Temperature drift	≤ 0.02 % of full scale/K		
Edge lengths of the nominal actuator	500 mm		
Electrical data			
Operating voltage	1030 VDC		
Response time typical	< 100 ms		
Readiness delay	≤ 1500 ms		
Output function	2 normally open contact, PNP		
Switching frequency	≤ 5 Hz		
Short-circuit protection	yes		
Mechanical data			
Design	Rectangular, QT50U		
Radiation direction	straight		
Dimensions	67.4 x 74 x 100.2 mm		
Housing material	Plastic, PBT		
Transducer material	Plastic, Epoxyd resin and PU foam		
Electrical connection	Connector, M12 × 1, PVC		
Ambient temperature	-20+70 °C		
Storage temperature	-40+90 °C		
Relative humidity	100 %		



#### **Features**

- ■LED indicates signal intensity
- Male connector, 5-pin, M12 × 1
- Temperature compensation selectable via DIP switch

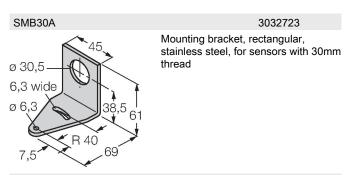
# Functional principle

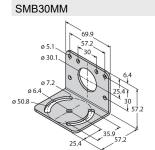
Ultrasonic sensors detect a multitude of objects contactless and wear-free with ultrasonic waves. Regardless of whether the object is transparent or opaque, metallic or non-metallic, liquid, solid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function.

## Technical data

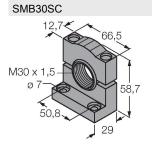
IP67		
LED, Green		
LED, Yellow		
LED, Red		
131 years acc. to SN 29500 (Ed. 99) 40 °C		
CE		

## Accessories





3027162 Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment



3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

## Accessories

Dimension drawing	Туре	ID	
0 15 M12 x1 26.5 214 26.5 32 L	WKC4.5T-2/TEL	6625028	Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
M12x1 o15 14	RKC4.5T-2/TEL	6625016	Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com