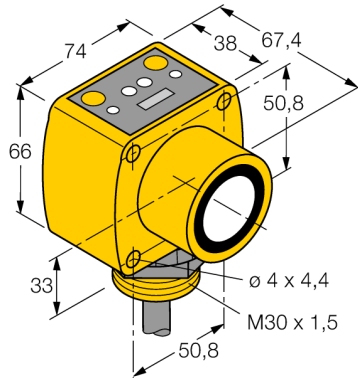


ultrasonic sensor
diffuse mode sensor
QT50UDB

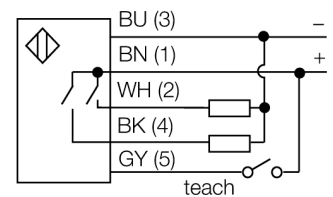
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- signal strength indication via LED
- temperature compensation selectable via DIP switch
- 2 switching ranges independently adjustable via teach-in
- Pump function adjustable via DIP switch

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.

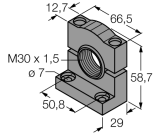
Type code	QT50UDB
Ident no.	3002722
Design	rectangular, QT50U
Housing material	Plastic, ABS
Connection	cable, 2
Protection class	IP67
Ambient temperature	-20...+70 °C
Operating voltage	LED
Switching state	• yellow
Operating voltage	10...30VDC
Output function	2x NO, PNP
Switching frequency	5 Hz
Hysteresis	≤ 5 mm
Short-circuit protection	yes
Range	20...800 cm
Ultrasound frequency	75 kHz
Repeatability	≥ ± 1 mm
Edge lengths of the nominal actuator	500 mm

ultrasonic sensor
diffuse mode sensor
QT50UDB

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Accessories

Type code	Ident no.	Description	Dimension drawing
SMB30A	3032723	Mounting bracket, stainless steel, for sensors with 30 mm thread	 Technical drawing of the SMB30A mounting bracket. Dimensions: 45 mm width, 61 mm height, 38.5 mm mounting hole offset, 6.3 mm hole diameter, 7.5 mm base thickness, R 40 radius, 6.3 mm wide slot, and 30.5 mm hole diameter.
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 30 mm thread; with 4 screws M5 x 0.8	 Technical drawing of the SMB30SC mounting bracket. Dimensions: 66.5 mm width, 58.7 mm height, 29 mm base thickness, 12.7 mm top flange, 50.8 mm mounting hole offset, 7 mm hole diameter, and M30 x 1.5 thread.