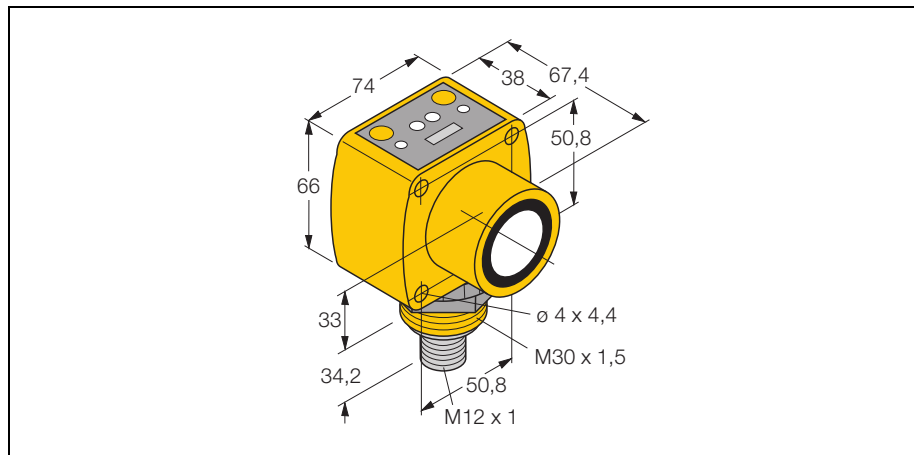


**ultrasonic sensor  
diffuse mode sensor  
QT50UDBQ6**

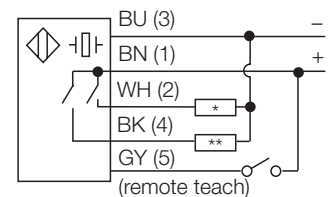
**TURCK**

Industrial  
Automation



- signal strength indication via LED
- temperature compensation selectable via DIP switch
- two independent switching ranges adjustable via teach-in
- pump function adjustable via DIP switch

**Wiring diagram**



\* output 1

\*\* output 2: 100 mA maximum

**Functional principle**

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of a large variety of objects. It does not matter whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistence. Environmental conditions such as spray, dust or rain hardly affect their function.

<b>Type</b>	QT50UDBQ6
Ident-No.	3002724
<b>Range</b>	20... 800 cm
Ultrasound frequency	75 kHz
Temperature drift	0.02 % / K
Repeatability	≥ ± 1 mm
Edge lengths of the nominal actuator	500 mm
Ambient temperature	-20...+ 70 °C
<b>Operating voltage</b>	10... 30VDC
Output function	2x normally open, pnp
Short-circuit protection	yes
Switching frequency	5 Hz
<b>Housing</b>	rectangular, QT50U
Dimensions	67.4 x 74 x 100.2 mm
Housing material	plastic, ABS
Connection	connectors, M12 x 1
Degree of protection	IP67
<b>Display switch state</b>	LED yellow
Display ' Object detected '	LED red