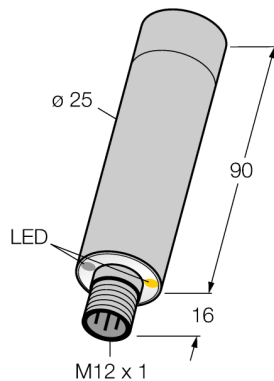


**ultrasonic sensor
receiver
M25URBQ**

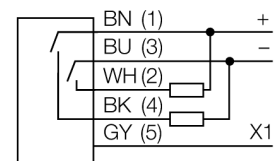
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- Sonic converter material and sleeve in V4A 1.4401 (AISI 316)
- Max. sensing range 50 cm
- Degree of protection IP68 / IP69K, fully encapsulated with housing cover made of polysulphone
- Suitable for 200,000 cleaning cycles with water at 85°C for a duration of 15 min and subsequent fast cooling.
- Operating voltage 10...30 VDC
- Switching output PNP/NPN, NO contact
- Male connector, M12x1, 5-pole
- Programmable high and low sensitivity

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. The sensitivity is adjusted via pin 5 (X1): Connection to 24 V DC (+) or no connection enables normal sensitivity to detect 30 mm objects over the entire measuring range. Connection to 0 V DC (-) enables high sensitivity to detect 15 mm objects at a max. range of 40 cm.

Type code	M25URBQ
Ident no.	3079746
Design	smooth barrel
Dimensions	Ø25x 106 mm
Housing material	Metal, V4A 1.4401 (AISI 316)
Sonic converter material	metal, V4A 1.4401 (AISI 316)
Connection	male, M12 x 1
Protection class	IP67 / IP69K
Ambient temperature	-20...+70 °C
Operating voltage	LED green
Switching state	• yellow
Operating voltage	10...30VDC
No-load current I ₀	≤ 35 mA
Output function	NO contact, PNP/NPN
Switching frequency	250 Hz
Short-circuit protection	yes
Reverse polarity protection	complete
Wire breakage protection	yes
Range	0...50 cm

**ultrasonic sensor
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Accessories

Type code	Ident no.	Description	Dimension drawing
SMBM25A	3081589	Mounting bracket, ceiling mount for M25U sensors, stainless steel, FDA conform	
SMBM25B	3010370	Mounting bracket, ceiling mount for M25U sensors, stainless steel, FDA conform	

Wiring accessories

Type code	Ident no.	Description	Dimension drawing
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	
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	
MQDCWD-530	3010185		