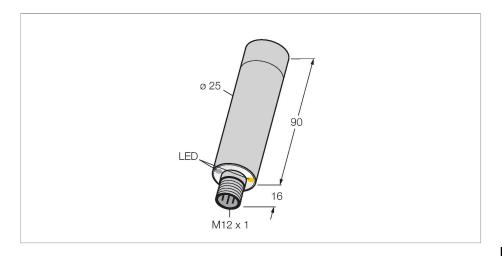


M25URBQ8 Ultrasonic Sensor – receiver With Switching Output





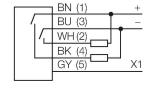
Туре	M25URBQ8		
ID	3079746		
Ultrasonic data			
Function	Opposed mode sensor		
Range	0500 mm		
Ultrasound frequency	140 kHz		
Electrical data			
Operating voltage	1030 VDC		
No-load current	≤ 35 mA		
Response time typical	< 3 ms		
Readiness delay	≤ 250 ms		
Output function	NO contact, PNP/NPN		
Switching frequency	≤ 125 Hz		
Short-circuit protection	yes		
Reverse polarity protection	Complete		
Wire breakage protection	yes		
Mechanical data			
Design	Tube, M25		
Radiation direction	straight		
Dimensions	Ø 25 x 106 mm		
Housing material	Metal, Stainless steel		
Transducer material	Metal, 1.4401 (AISI 316)		
Electrical connection	Connector, M12 × 1, PVC		
Ambient temperature	-20+70 °C		
Relative humidity	95 %		



Features

- Sonic transducer face and sleeve made of V4A 1.4401 (AISI 316)
- ■Max. range 50 cm
- Protection class 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
- ■M12 × 1 male, 5-pin
- Programmable high and low sensitivity

Wiring diagram



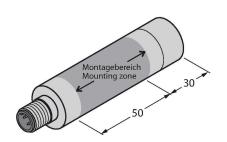
Functional principle

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.



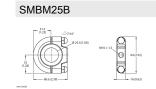
Technical data

Protection class	IP67 IP69	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Tests/approvals		
Approvals	CE	



Accessories

SMBM25A	3081589
	Mounting bracket, ceiling mount for M25U sensors, stainless steel, FDA conform



Mounting bracket, ceiling mount for M25U sensors, stainless steel, FDA conform

3010370

Accessories

Dimension drawing	Туре	ID	
	MQDCWD-530	3010185	
M12×1	RKH4.5-2/TFG	6933455	Connection cable, M12 female connector, straight, 5-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature range: -40+105 °C
M12 x 1 14 25,2 14	WKH4.5-2/TFG	6933548	Connection cable, M12 female connector, angled, 5-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature range: -40+105 °C