

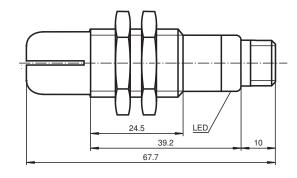
Ultrasonic sensor, transmitter UBE500-18GM40A-V1-Y220367

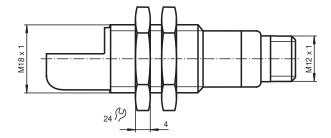
- Short design, 40 mm
- Function indicators visible from all directions
- Test input
- Stainless steel housing

Single head system



Dimensions





Technical Data

General specifications				
Sensing range		100 500 mm		
Standard target plate		100 mm x 100 mm		
Transducer frequency		approx. 390 kHz		
Indicators/operating means				
LED green		Power on		
LED red		Emitter deactivated		
Electrical specifications				
Operating voltage	U _B	10 30 V DC , ripple 10 $\%_{\rm SS}$		
No-load supply current	I_0	≤ 20 mA		



Technical Data

Input				
Input type	1 Test input emitter deactivated: +6 V +U _B input impedance: > 4.7 k Ω			
Compliance with standards and directives				
Standard conformity				
Standards	EN IEC 60947-5-2:2020 IEC 60947-5-2:2019			
Approvals and certificates				
UL approval	cULus Listed, Class 2 Power Source			
CCC approval	CCC approval / marking not required for products rated ≤36 V			
Ambient conditions				
Ambient temperature	-25 70 °C (-13 158 °F)			
Storage temperature	-40 85 °C (-40 185 °F)			
Mechanical specifications				
Connection type	Connector plug M12 x 1 , 4-pin			
Housing diameter	18 mm			
Degree of protection	IP67			
Material				
Housing	stainless steel V4A			
Transducer	epoxy resin/hollow glass sphere mixture; foam polyurethane, cover PBT			
Mass	25 g			

Connection

Standard symbol/Connections:

(Emitter)

	1 (BN)	
lυ	2 (WH)	Test input
$ \check{\Phi} $	4 (BK)	n. c.
	3 (BU)	- II. 6.

Core colours in accordance with EN 60947-5-2.

Connection Assignment

Connector V1



Accessories

0	CPZ18B03	Mounting Bracket with swivel nut
	OMH-04	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
	BF 18	Mounting flange, 18 mm
	BF 18-F	Plastic mounting adapter, 18 mm

Accessories BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm V1-G-2M-PVC Female cordset single-ended M12 straight A-coded, 4-pin, PVC cable grey V1-W-2M-PUR Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey UVW90-K18 Ultrasonic -deflector M18K-VE Plastic nuts with centering ring for the vibration-free mounting of cylindrical sensors

Function

Function

A through-beam ultrasonic barrier always consists of a single emitter and a single receiver. The function of a through-beam ultrasonic barrier is based in the interruption of the sound transmission to the receiver by the object to be detected.

The emitter sends an ultrasonic signal that is evaluated by the receiver. If the signal is interrupted or muted by the object to be detected, the receiver switches.

No electrical connections are required between the emitter and receiver.

The function of through-beam ultrasonic barriers is not dependent on the position of their installation. We recommend, however, to install the emitter below in the case of vertical installations to prevent the accumulation of dust particles.

Test function

For test purpose, the ultrasonic emitter is equipped with a test input. In normal operation mode (test input not connected or connected to $-U_B$), the green LED of the emitter is on. If the test input is connected to $+U_B$, the ultrasonic emitter gets deactivated and its LED changes into red. Simultaneously the receiver switches and its yellow LED goes on.