

Model Number

UBE500-18GM40A-V1-Y220367

Single head system

Features

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

Technical data

- General specifications Sensing range Standard target plate Transducer frequency Indicators/operating means LED green
- LED gree
- Electrical specifications Operating voltage U_B
- No-load supply current I₀ Input
- Input type

Ambient conditions

- Ambient temperature Storage temperature
- Mechanical specifications Connection type
- Degree of protection Material
- Housing
- Transducer
- Mass Compliance with standards and directives Standard conformity
 - Standards

Approvals and certificates

UL approval CSA approval CCC approval

Dimensions

100 ... 500 mm 100 mm x 100 mm approx. 390 kHz

Power on Emitter deactivated

10 ... 30 V DC , ripple 10 $\%_{SS}$ \leq 20 mA

1 Test input emitter deactivated: +6 V ... +U_B input impedance: > 4.7 $k\Omega$

-25 ... 70 °C (-13 ... 158 °F) -40 ... 85 °C (-40 ... 185 °F)

Connector M12 x 1 , 4-pin IP67

stainless steel V4A epoxy resin/hollow glass sphere mixture; foam polyurethane, cover PBT 25 g

EN 60947-5-2:2007 + A1:2012 IEC 60947-5-2:2007 + A1:2012

cULus Listed, General Purpose cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V





Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Electrical Connection

Standard symbol/Connections: (Emitter)

	01)		
v ♦		1 (BN)	- + U _B
		2 (WH)	Test input
		4 (BK)	- n. c.
		3 (BU)	
			- - U _В

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

Pinout



Accessories

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 Mounting flange with dead stop, 18 mm

BF 5-30

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

V1-G-2M-PVC Female cordset, M12, 4-pin, PVC cable

V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

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.

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