CE

Features



Per 10 g

≤36 V

max. 0.2 Nm

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

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Mass

directives

Tightening torque, fastening screws

Compliance with standards and

Standard conformity Standards

UL approval CSA approval

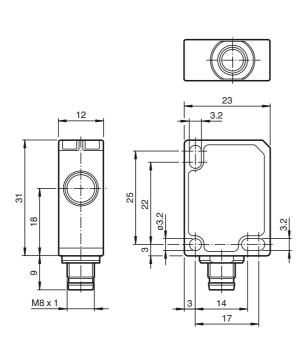
CCC approval

Approvals and certificates

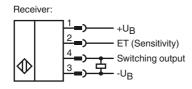
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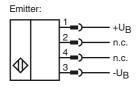


Dimensions



Electrical Connection





Pinout



ICH

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

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Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

OMH-ML7-01

Mounting aid for ML7 and ML8 series, Mounting bracket

V31-GM-2M-PVC Female cordset, M8, 4-pin, PVC cable

V31-WM-2M-PVC

Female cordset, M8, 4-pin, PVC cable

Description of Sensor Function

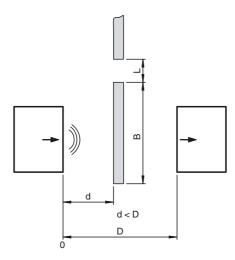
An ultrasonic thru-beam sensor always consists of an ultrasonic emitter and receiver. The working principle of the ultrasonic thru-beam sensor is based on the interruption of the transmission from the emitter to the receiver by the object to be detected (obstacle).

The emitter produces an ultrasonic signal which is evaluated by the receiver. If the signal is damped or broken by the object being detected, the receiver switches state.

No electrical connections are required between the emitter and receiver.

Sensitivity adjustment

The sensitivity is adjusted using the input ET. This can be open or connected using +U_B or -U_B.



ET	Sensitivity	D	B ⁽¹⁾	L ⁽¹⁾
Open	High	<u><</u> 800 mm	<u>≥</u> 50 mm	<u>≥</u> 15 mm
-U _B	Medium	<u><</u> 600 mm	<u>></u> 40 mm	<u>></u> 10 mm
+U _B	Low	<u><</u> 400 mm	<u>></u> 30 mm	<u>></u> 5 mm

(1)

The specified values for B and L are reference values and refer to the maximum distance D and to objects with a rectangular shape. The shape of the objects can have an effect on the values for B and L.

Safety Note

The use of this device in applications, where the safety of persons depends from the devices function, is not allowed!

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

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