



Model Number

M100/MV100-RT/76b/102/115b

Thru-beam sensor with 300 mm fixed cable and 4-pin, M12 x 1 connector

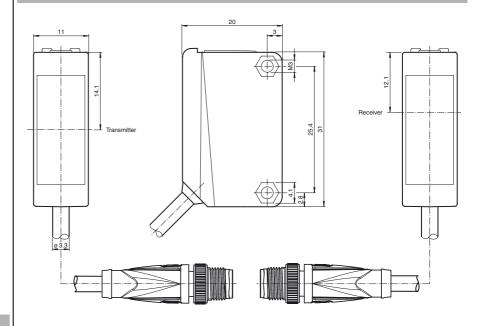
Features

- Miniature design
- Easy to use
- Full metal thread mounting
- Highly visible LEDs for Power ON and switching state
- · Not sensitive to ambient light

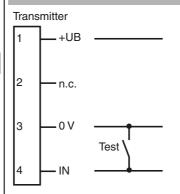
Product information

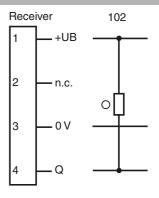
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.

Dimensions



Electrical connection





- O = Light on
- = Dark on

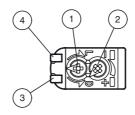
Pinout

Wire colors in accordance with EN 60947-5-2



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

Indicators/operating means



1	Light-Dark-switching	
2	Sensitivity adjuster	
3	Signal display	yellow
4	Operating display	green

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M100-IR/76b/115	System components		
Receiver MV100-IR/102/115	•		M100-IR/76b/115
Effective detection range Threshold detection range Light type Light type Diameter of the light spot Angle of divergence Optical face Ambient light limit EN 60947-5-2 Functional safety related parameters MTTFd Mission Time (Ttw) Diagnostic Coverage (DC) Indicators/Operating means Operation indicator Function indicator Control elements Control elements Control elements Electrical specifications Operating voltage Misple Mo-load supply current Test input Test input Misting type Switching type Switching type Switching current Switching voltage Switching current Moltage drop Switching requency Function indicator The switching type of the sensor is adjustable. The desting is: light on Signal output Switching frequency Function indicator Function indicator Function indicator LED green: power on Receiver: LED yellow, lights up when light beam is free when falling short of the stability control; OFF when light is interrupted Sensitivity adjustment Light-on/dark-on changeover switch Electrical specifications Operating voltage Max. 10 % No-load supply current In the switching type of the sensor is adjustable. The desting is: light on Signal output The switching type of the sensor is adjustable. The desting is: light on Signal output The switching type of the sensor is adjustable. The desting is: light on Signal output The switching type of the sensor is adjustable. The desting is: light on Signal output Switching current Max. 30 ∨ DC Switching frequency Function conditions Ambient temperature 30 60 °C (-22 140 °F) 31 mm Housing depth Degree of protection Portion indicator Portion indicator Function conditions Ambient temperature 30 60 °C (-22 140 °F) 30 mm Portion indicator Portion indicator Portion indicator Function indicator Function indicator Function indicator Function indicator Function indicator Function i			
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UL approval cULus Listed, Class 2 Power Source or listed Power with a limited voltage output with (maybe integrated)	Approvals and certificates		
(may 3.3 A according LH 248). Type 1 enclosure			cULus Listed, Class 2 Power Source or listed Power Supply with a limited voltage output with (maybe integrated) fuse (max. 3.3 A according UL248), Type 1 enclosure
, , , , , , , , , , , , , , , , , , , ,	CCC approval		CCC approval / marking not required for products rated ≤36

Accessories

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-02

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-05

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-08

Mounting aid for ML100 series, Snap-in

OMH-F10-ML100

Mounting aid for ML100 series

OMH-10

Mounting aid

OMH-ML100-S1

Mounting bracket

Other suitable accessories can be found at www.pepperl-fuchs.com

Curves/Diagrams

