

CE

Model Number

M100/MV100-6757/102

Thru-beam sensor with 2 m fixed cable

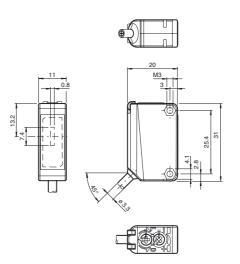
Features

- Miniature design ٠
- Slit aperture to shape the light in mini-٠ ature sensors
- Easy to use ٠
- Very bright, highly visible light spot •
- Full metal thread mounting ٠
- Highly visible LEDs for Power ON and ٠ switching state
- Not sensitive to ambient light

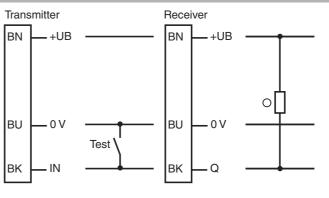
Product information

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

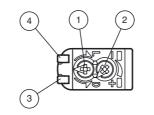


Electrical connection



O = Light on n

Indicators/operating means



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

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

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Technical data System components Emitter M100-6757/76b MV100-6757/102 Receiver General specifications Effective detection range 0 15m Threshold detection range 2 m Light source LED modulated visible red light Light type Diameter of the light spot approx. 0.14 m at a distance of 2 m Angle of divergence approx. 2 Optical face frontal EN 60947-5-2 Ambient light limit Functional safety related parameters MTTF_d 860 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0% Indicators/operating means Operation indicator LED green: power on Receiver: LED yellow, lights up when light beam is free, flashes Function indicator when falling short of the stability control ; OFF when light beam is interrupted sensitivity adjustment Control elements Light/Dark switch Control elements **Electrical specifications** Operating voltage 10 ... 30 V DC , class 2 U_B Ripple max. 10 % Emitter: ≤ 15 mA No-load supply current I_0 Receiver: ≤ 8 mA Input emitter deactivation at 0 V Test input Output Switching type light/dark on, switchable 1 NPN output, short-circuit protected, reverse polarity protected, Signal output open collector max. 30 V DC Switching voltage Switching current max. 100 mA , resistive load Ud < 15 V DCVoltage drop 1000 Hz Switching frequency Response time 0.5 ms Ambient conditions Ambient temperature -30 ... 60 °C (-22 ... 140 °F) Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** Degree of protection IP67 Connection 2 m fixed cable Material Housing PC (Polycarbonate) Optical face **PMMA** approx. 100 g (emitter and receiver) Mass Cable length 2 m Compliance with standards and directives

Directive conformity	
EMC Directive 2004/108/EC	EN 60947-5-2
Standard conformity	
Standards	UL 508
Approvals and certificates	
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	CCC approval / marking not required for products rated \leq 36 V
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

Accessories

OMH-ML100-01 Mounting bracket

OMH-ML100-02 Mounting bracket

OMH-ML100-03 Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

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OMH-ML100-04 Mounting bracket

OMH-ML100-05 Mounting bracket

OMH-F10-ML100 Mounting aid for ML100 series

OMH-10 Mounting aid

OMH-ML100-S1 Mounting bracket

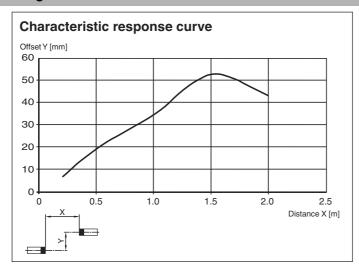
OMH-ML100-08 Mounting aid

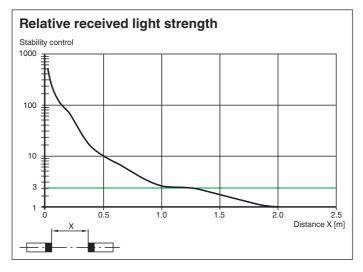
Other suitable accessories can be found at www.pepperl-fuchs.com

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Curves/Diagrams





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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

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