





Model Number

M100/MV100-6757/103

Thru-beam sensor with 2 m fixed cable

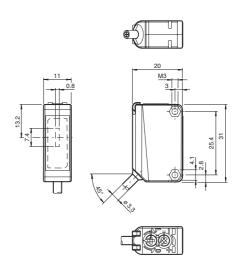
Features

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

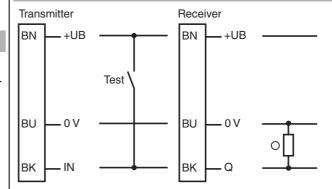
Product information

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

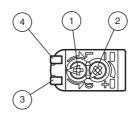


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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

O		
System components		
Emitter		M100-6757/76a
Receiver		MV100-6757/103
General specifications		
Effective detection range		0 1.5 m
Threshold detection range		2 m
Light source		LED
Light type		modulated visible red light
Diameter of the light spot		approx. 0.14 m at a distance of 2 m
Angle of divergence		approx. 2 °
Optical face		frontal
Ambient light limit		EN 60947-5-2
Functional safety related param	neters	
MTTF _d		860 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: power on
Function indicator		Receiver: LED yellow, lights up when light beam is free, flash
Tunotion indicator		when falling short of the stability control; OFF when light bea is interrupted
Control elements		sensitivity adjustment
Control elements		Light/Dark switch
Electrical specifications		
Operating voltage	U _B	10 30 V DC , class 2
Ripple	- 6	max. 10 %
No-load supply current	I _O	Emitter: ≤ 15 mA Receiver: ≤ 8 mA
Input		
Test input		emitter deactivation at +U _B
Output		Ü
Switching type		light/dark on, switchable
Signal output		1 PNP output, short-circuit protected, reverse polarity protect
O.g. a. salpat		open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA , resistive load
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	1000 Hz
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		10 70 0 (10 100 1)
		IDC7
Degree of protection		IP67
Connection		2 m fixed cable
Material		PO (P. L L)
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 100 g (emitter and receiver)
Cable length		2 m
Compliance with standards and ves	l directi	-
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Standard conformity		
Standards		UL 508
Approvals and certificates		
Approvals and certificates UL approval		cULus Listed Class 2 Power Source Type 1 enclosure
Approvals and certificates UL approval CCC approval		cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated ≤36

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

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

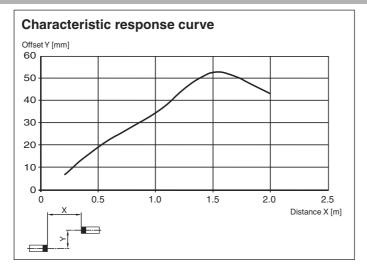
Mounting bracket

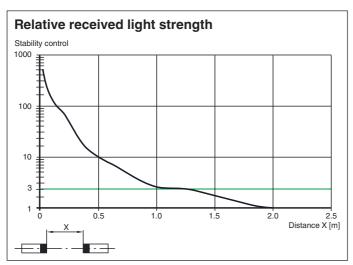
OMH-ML100-08

Mounting aid

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

Curves/Diagrams





www.pepperl-fuchs.com