



Model Number

M100/MV100-6090/102

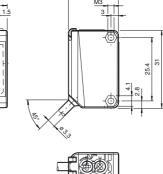
Thru-beam sensor with 2 m fixed cable

Features

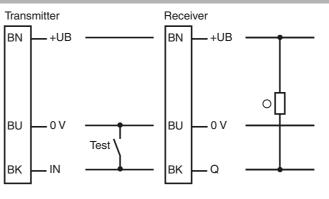
- Miniature design ٠
- Slit aperture to shape the light in mini-٠ ature sensors
- Easy to use ٠
- Very bright, highly visible light spot •
- Full metal thread mounting ٠
- Highly visible LEDs for Power ON and ٠ switching state
- Not sensitive to ambient light

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.

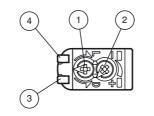


Electrical connection



O = Light on

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-RT/76b/115		
Receiver		MV100-RT/102/115		
General specifications				
Effective detection range		0 2.8 m		
Threshold detection range		4 m		
Light source		LED		
Light type		modulated visible red light		
Diameter of the light spot		approx. 0.3 m at a distance of 4 m		
Angle of divergence		approx. 2 °		
Optical face		frontal		
Ambient light limit		EN 60947-5-2		
Functional safety related parame	eters			
MTTF _d		860 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Operation indicator		LED green: power on		
Eunction indicator		Receiver: LED yellow, lights up when light beam is free, flashes		
		when falling short of the stability control ; OFF when light beam is interrupted		
Control elements		sensitivity adjustment		
Control elements		Light/Dark switch		
Electrical specifications				
Operating voltage	UB	10 30 V DC , class 2		
Ripple		max. 10 %		
No-load supply current	I ₀	Emitter: ≤ 15 mA Receiver: ≤ 8 mA		
Innut				
Test input emitter deactivation at 0 V				
Test input				
Output				
Switching type		light/dark on, switchable		
Signal output		1 NPN output, short-circuit protected, reverse polarity protected, open collector		
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA , resistive load ≤ 1.5 V DC		
Voltage drop	U _d f			
Switching frequency Response time	1	1000 Hz 0.5 ms		
·		0.5 ms		
Ambient conditions				
Ambient temperature		-30 60 °C (-22 140 °F) -40 70 °C (-40 158 °F)		
Storage temperature		-40 70 °C (-40 158 °P)		
Mechanical specifications		1007		
Protection degree		IP67		
Connection		2 m fixed cable		
Material				
Housing		PC (Polycarbonate)		
Optical face		PMMA		
Mass Cable length		approx. 100 g (emitter and receiver)		
Cable length	aller - ··	2 m		
Compliance with standards and directi- ves 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)		

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

Accessories OMH-ML100-01 Mounting bracket

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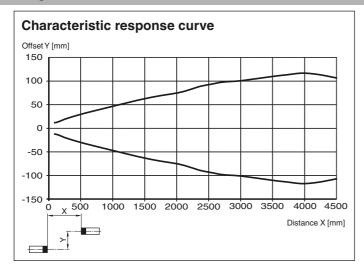
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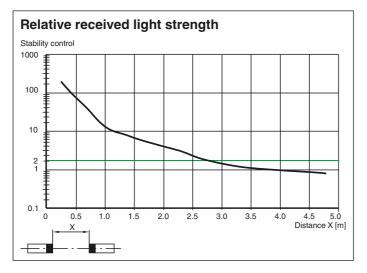
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Curves/Diagrams





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