



Model Number

ML100-8-1000-RT/95/102

Diffuse mode sensor with 4-pin, M8 x 1 connector

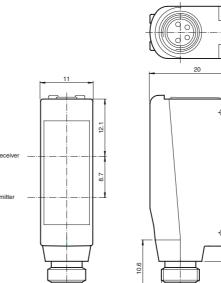
Features

- Miniature design •
- 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 ٠

Product information

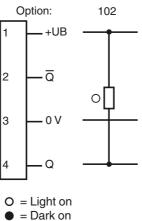
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly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

Dimensions



25.4 3 Æ

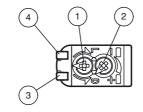
Electrical connection



Pinout



Indicators/operating means



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

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Technical data			Accessories	
General specifications		OMH-ML100-03		
Detection range		0 1000 mm	Mounting aid for round steel ø 12 mm or	
Adjustment range		100 1000 mm	sheet 1.5 mm 3 mm	
Reference target		standard white, 100 mm x 100 mm	sneet 1.5 mm 3 mm	
Light source		LED	OMH-ML100-04	
Light type		modulated visible red light	Mounting bracket	
Diameter of the light spot		approx. 75 mm at a distance of 1000 mm	incurring bracher	
Angle of divergence		approx. 2 °	OMH-ML100-05	
Optical face		frontal	Mounting bracket	
Ambient light limit		EN 60947-5-2	ONUL ETO MI 100	
Functional safety related parar	meters	OMH-F10-ML100		
MTTF _d		860 a	Mounting aid for ML100 series	
Mission Time (T _M)		20 a	OMH-10	
Diagnostic Coverage (DC)		0 %	Mounting aid	
Indicators/operating means			Mounting ald	
Operation indicator		LED green: power on	V31-WM-2M-PUR	
Function indicator		LED yellow, lights up with receiver lit	Female cordset, M8, 4-pin, PUR cable	
Control elements		sensitivity adjustment		
Control elements		Light/Dark switch	V31-GM-2M-PUR	
Electrical specifications			Female cordset, M8, 4-pin, PUR cable	
Operating voltage	UB	10 30 V DC , class 2		
Ripple		max. 10 %	OMH-ML100-S1	
No-load supply current	I ₀	< 20 mA	Mounting bracket	
Output			Other suitable accessories can be found a	
Switching type		light/dark on, switchable	www.pepperl-fuchs.com	
Signal output		1 NPN output, short-circuit protected, reverse polarity protected, open collector	www.pcpper-rdens.com	
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA		
Voltage drop	Ud	≤ 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				
Protection degree		IP67		
Connection		Male connector M8 x 1 , 4-pin		
Material				
Housing		PC (Polycarbonate)		
Optical face		PMMA		
Mass		approx. 10 g		
Compliance with standards an ves	d directi	-		
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 ≤36 V		
Approvals		CE, cULus Listed 57M3 (Only in association with UL Class 2		
-		power supply; Type 1 enclosure)		

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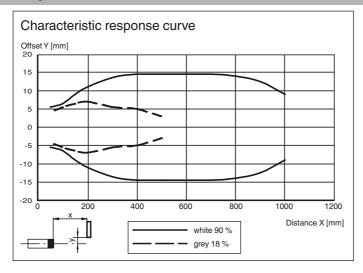
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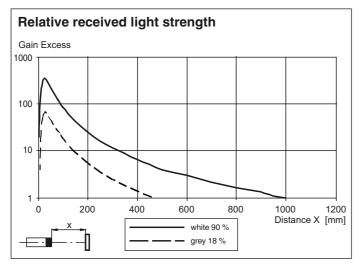
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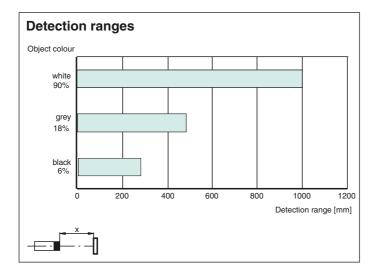


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Curves/Diagrams







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