



Model Number

ML100-8-W-200-RT/102/115

Diffuse mode sensor with 2 m fixed cable

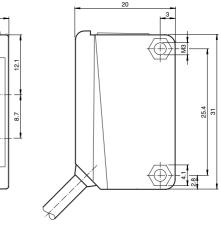
Features

- Miniature design ٠
- Detects transparent materials ٠
- Full metal thread mounting •
- Not sensitive to ambient light •
- The extra-large light spot makes the ٠ device insensitive to vibrations and skewing of the object

Product information

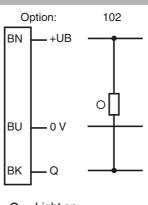
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly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





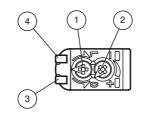
Electrical connection

Dimensions



O = Light on • = Dark on

Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

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Technical data		Accessories		
General specifications		OMH-ML100-01		
Detection range		0 200 mm	Mounting aid for ML100 series, Mounting	
Adjustment range		15 200 mm	bracket	
Reference target		standard white, 200 mm x 200 mm	bracket	
Light source		LED	OMH-ML100-02	
Light type		modulated visible red light	Mounting aid for ML100 series, Mounting	
Polarization filter		no	bracket	
Diameter of the light spot		approx. 170 mm at a distance of 200 mm	OMH-ML100-03	
Optical face		frontal		
Ambient light limit		EN 60947-5-2:2007+A1:2012	Mounting aid for round steel ø 12 mm or	
Functional safety related pa	arameters		sheet 1.5 mm 3 mm	
MTTF _d		860 a		
Mission Time (T _M)		20 a	OMH-ML100-04	
Diagnostic Coverage (DC)		0 %	Mounting aid for ML100 series, Mounting	
Indicators/operating means	3		bracket	
Operation indicator		LED green: power on		
Function indicator		LED yellow, lights up with receiver lit	OMH-ML100-05	
Control elements		sensitivity adjustment	Mounting aid for ML100 series, Mounting	
Control elements		Light-on/dark-on changeover switch	bracket	
Electrical specifications				
Operating voltage	U _B	10 30 V DC	OMH-F10-ML100	
Ripple	OB	max. 10 %	Mounting aid for ML100 series	
No-load supply current	I ₀	< 20 mA	0111110	
	0	< 20 m/A	OMH-10	
Output		The switching type of the sensor is adjustable. The default set-	Mounting aid	
Switching type		ting is: light on	OMH-ML100-S1	
Signal output		1 NPN output, short-circuit protected, reverse polarity protected, open collector	Mounting bracket	
Switching voltage		max. 30 V DC	OMH-ML100-08	
Switching current		max. 100 mA , resistive load		
Voltage drop	U _d	≤ 1.5 V DC	Mounting aid for ML100 series, Snap-in	
Switching frequency	f	1000 Hz	Additional accessories can be found in the	
Response time		0.5 ms	Internet.	
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		
Mass		approx. 50 g		
Tightening torque, fastening	SCROWS	0.6 Nm		
Cable length	3010103	2 m		
Compliance with standards	and direct			
ves				
Directive conformity				
EMC Directive 2004/108/E	C	EN 60947-5-2:2007+A1:2012		
Standard conformity				
Standards		UL 60947-5-2		
Approvals and certificates				
UL approval		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 \leq 36 V		

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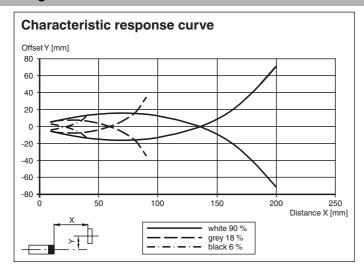
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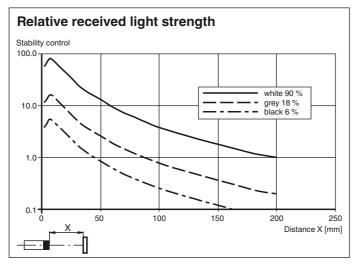
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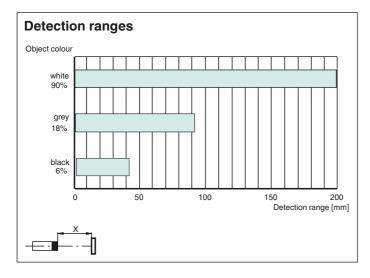


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Curves/Diagrams







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