



Model Number

ML100-8-W-200-RT/103/115b

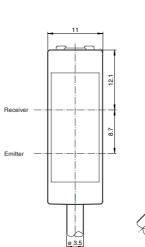
Diffuse mode sensor with 2 m fixed cable and 4-pin, M12 x 1 connector

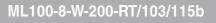
Features

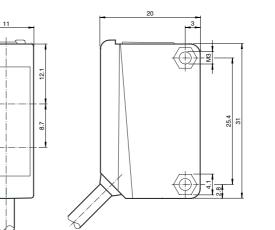
- ٠ Miniature design
- Easy to use
- Very bright, highly visible light spot
- Full metal thread mounting
- Highly visible LEDs for Power ON and switching state
- Not sensitive to ambient light ٠

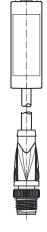
Product information

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.

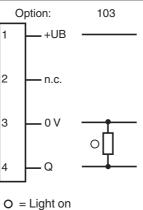








Electrical connection

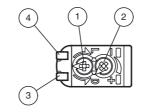


= Dark on

Pinout



Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

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Technical data

General specifications		
Detection range		0 200 mm
Adjustment range		15 200 mm
Reference target		standard white, 200 mm x 200 mm
Light source		LED
Light type		modulated visible red light
Diameter of the light spot		approx. 170 mm at a distance of 200 mm
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
Function indicator		LED yellow, lights up with receiver lit
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	< 20 mA
Output		
Switching type		light/dark on, switchable
Signal output		1 PNP output, short-circuit protected, reverse polarity protected
		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		
Protection degree		IP67
Connection		300 mm fixed cable with 4-pin, M12 x 1 connector
Material		PC (Polycov horacto)
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass Cable length		approx. 20 g 0.3 m
5	الحميدالم	
Compliance with standards and ves	urecti-	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Standard conformity		•
Standards		UL 508
Approvals and cartificator		
Approvals and certificates		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

V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

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

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

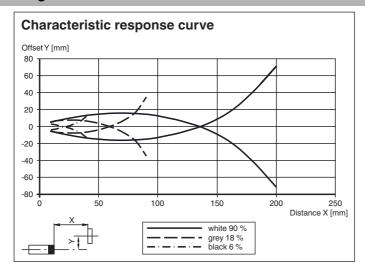
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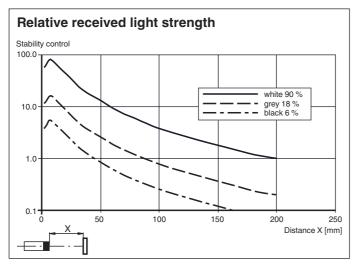
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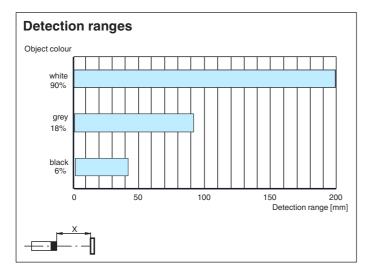


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Curves/Diagrams







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