



## **Model Number**

## ML100-8-1000-RT/103/115

Diffuse mode sensor with 2 m fixed cable

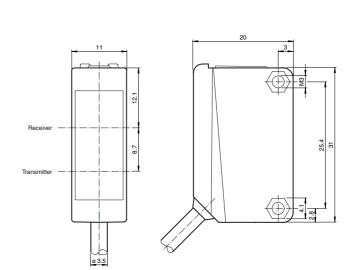
### **Features**

- Miniature design ٠
- Easy to use ٠
- 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

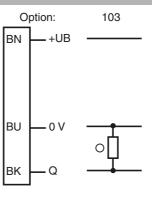
## **Product information**

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** 

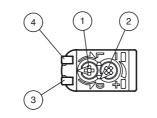


#### **Electrical connection**



$$O = Light on$$
  
 $\bullet = Dark on$ 

## 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 USA: +1 330 486 0001 www.pepperl-fuchs.com

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# ML100-8-1000-RT/103/115

Technical data		
General specifications		
Detection range		0 1000 mm
Adjustment range		100 1000 mm
Reference target		standard white, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light
Diameter of the light spot		approx. 75 mm at a distance of 1000 mm
Angle of divergence		approx. 2 °
Optical face		frontal
Ambient light limit		EN 60947-5-2
Functional safety related parar	neters	
MTTF <sub>d</sub>		860 a
Mission Time (T <sub>M</sub> )		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 <sub>0</sub>		< 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 <sub>d</sub>	≤ 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		2 m fixed cable
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 50 g
Cable length		2 m
Compliance with standards an ves	d direct	-
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

CCC approva Approvals

CCC approval / marking not required for products rated ≤36 V CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

cessories

IH-ML100-01 unting bracket

IH-ML100-02 unting bracket

IH-ML100-03 unting aid for round steel ø 12 mm or et 1.5 mm ... 3 mm

IH-ML100-04 unting bracket

IH-ML100-05 unting bracket

IH-F10-ML100 unting aid for ML100 series

IH-10 unting aid

IH-ML100-S1 unting bracket

er suitable accessories can be found at w.pepperl-fuchs.com

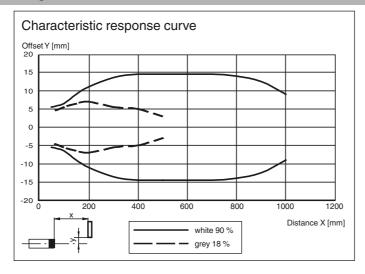
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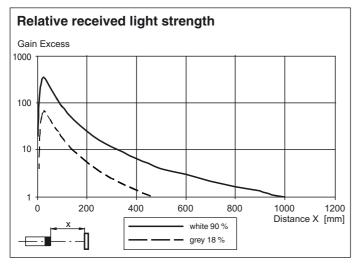
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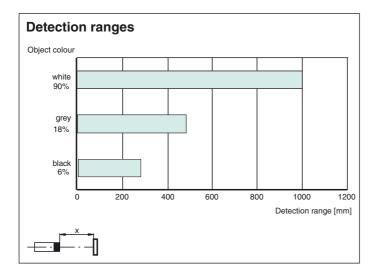


2

# **Curves/Diagrams**







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