







Model Number

ML100-8-1000-RT/102/115

Diffuse mode sensor with 2 m fixed cable

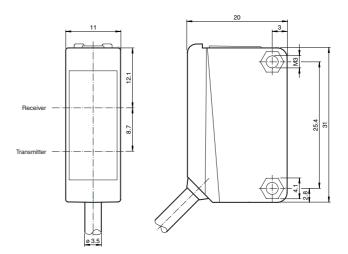
Features

- 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

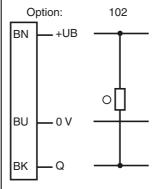
Product information

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

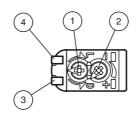


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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

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 par	rameters	
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	U _B	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 NPN output, short-circuit protected, reverse polarity protection 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		2 m fixed cable
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 50 g
Cable length		2 m
Compliance with standards ves	and direct	i-
Directive conformity		
EMC Directive 2004/108/E0	0	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
Approvale		CE of II us Listed 57M3 (Only in association with LII. Class

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

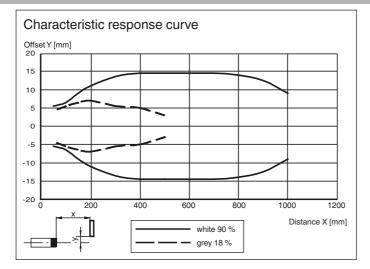
Other suitable accessories can be found at www.pepperl-fuchs.com

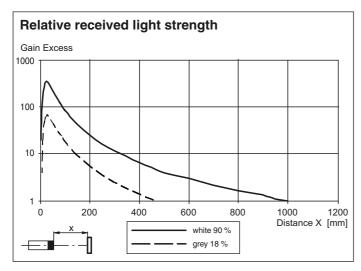
EPPERL+FUCHS

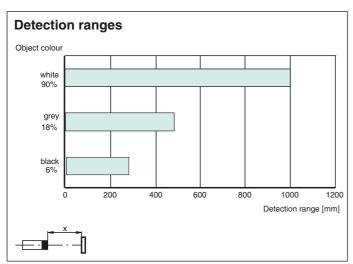
CE, cULus Listed 57M3 (Only in association with UL Class 2

power supply; Type 1 enclosure)

Approvals







www.pepperl-fuchs.com