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Model Number

ML100-8-1000-RT/103/115a-1M

Diffuse mode sensor with fixed cable and 4-pin, M8 connector

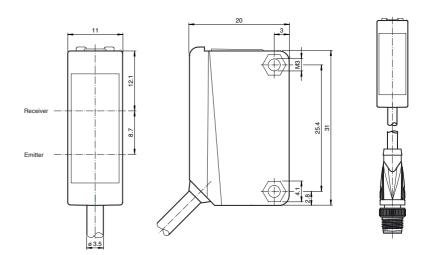
Features

- 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

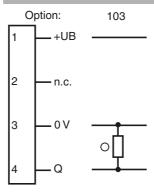
Product information

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



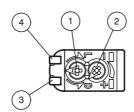
- O = Light on
- = Dark on

Pinout



1 2 3	BN WH BU BK	(brown) (white) (blue)
4	BK	(black)

Indicators/operating means



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

Ambient conditions Ambient temperature Storage temperature **Mechanical specifications**

Response time

Housing width Housing height Housing depth Degree of protection Connection Material

Housing Optical face Mass Cable length

Compliance with standards and directives Directive conformity

EMC Directive 2004/108/EC

Standard conformity Standards

Approvals and certificates

EAC conformity **UL** approval

CCC approval

0 ... 1000 mm 100 ... 1000 mm

standard white, 100 mm x 100 mm

modulated visible red light

approx. 75 mm at a distance of 1000 mm approx. 2 °

frontal

EN 60947-5-2:2007+A1:2012

860 a 20 a

LED green: power on

LED yellow, lights up with receiver lit sensitivity adjustment

Light-on/dark-on changeover switch

10 ... 30 V DC

max. 10 % < 20 mA

> The switching type of the sensor is adjustable. The default setting is: light on

1 PNP output, short-circuit protected, reverse polarity protected, open collector

max. 30 V DC max. 100 mA, resistive load ≤ 1.5 V DC

1000 Hz 0.5 ms

-30 ... 60 °C (-22 ... 140 °F)

-40 ... 70 °C (-40 ... 158 °F) 11 mm

31 mm 20 mm IP67

Fixed cable 1000 mm with 4-pin M8 connector

PC (Polycarbonate) **PMMA** approx. 30 g

EN 60947-5-2

UL 60947-5-2

TR CU 020/2011

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 / marking not required for products rated \leq 36 V

Accessories

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-02

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-05

Mounting aid for ML100 series, Mounting bracket

OMH-F10-ML100

Mounting aid for ML100 series

OMH-10 Mounting aid

OMH-ML100-S1

Mounting bracket

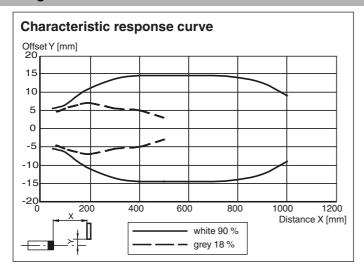
OMH-ML100-08

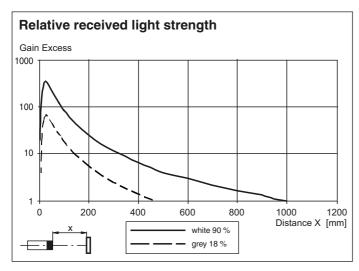
Mounting aid for ML100 series, Snap-in

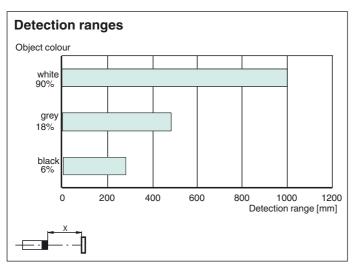
Other suitable accessories can be found at www.pepperl-fuchs.com



Curves/Diagrams







www.pepperl-fuchs.com