



Model Number

ML100-8-1000-RT/102/115

Diffuse mode sensor with 2 m fixed cable

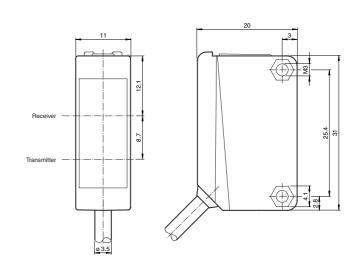
Features

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

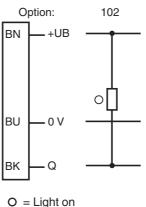
Product information

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

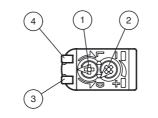


Electrical connection



$$\bullet$$
 = 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 fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data General specifications 0 ... 1000 mm Detection range Adjustment range 100 ... 1000 mm standard white, 100 mm x 100 mm Reference target Light source LED modulated visible red light Light type Polarization filter no approx. 75 mm at a distance of 1000 mm Diameter of the light spot Angle of divergence approx. 2 Optical face frontal Ambient light limit EN 60947-5-2 Functional safety related parameters 860 a MTTF_d 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** 10 ... 30 V DC , class 2 Operating voltage UB max. 10 % Ripple No-load supply current < 20 mA I_0 Output Switching type light/dark on, switchable 1 NPN output, short-circuit protected, reverse polarity protected, Signal output open collector max. 30 V DC Switching voltage Switching current max. 100 mA , resistive load \leq 1.5 V DC Voltage drop Ud 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** Degree of protection IP67 Connection 2 m fixed cable Material Housing Optical face PMMA Mass approx. 50 g Cable length 2 m Compliance with standards and directives Directive conformity

EMC Directive 2004/108/EC Standard conformity Standards

Approvals and certificates

UL approval CCC approval Approvals

PC (Polycarbonate) EN 60947-5-2 UL 508 cULus Listed, Class 2 Power Source, Type 1 enclosure

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

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

OMH-ML100-08 Mounting aid

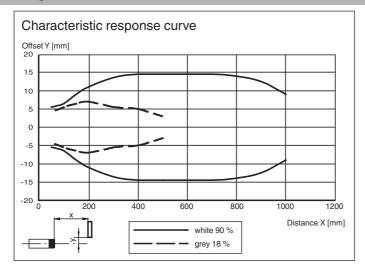
Other suitable accessories can be found at www.pepperl-fuchs.com

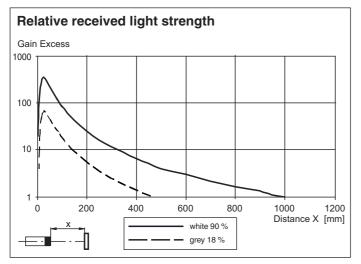
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

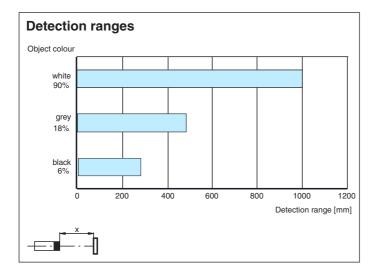
2



Curves/Diagrams







Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

