







Model Number

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

Diffuse mode sensor with 2 m fixed cable

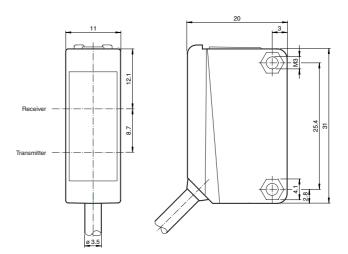
Features

- 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

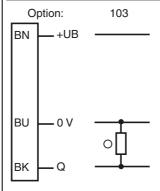
Product information

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

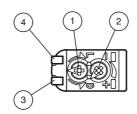


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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

Technical data General specifications 0 ... 200 mm Detection range Adjustment range 15 ... 200 mm standard white, 200 mm x 200 mm Reference target Light source modulated visible red light Light type 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 parameters 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 sensitivity adjustment Control elements Control elements Light/Dark switch **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage U_B Ripple max. 10 % No-load supply current < 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 ≤ 1.5 V DC Switching frequency 1000 Hz 0.5 ms Response time Ambient conditions Ambient temperature -30 ... 60 °C (-22 ... 140 °F) Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** IP67 Protection degree 2 m fixed cable Connection Material Housing PC (Polycarbonate) РММА Optical face Mass approx. 50 g 2 m Cable length Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC EN 60947-5-2 Standard conformity UL 508 Standards Approvals and certificates **UL** approval cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval CCC approval / marking not required for products rated \leq 36 V CE, cULus Listed 57M3 (Only in association with UL Class 2 Approvals

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

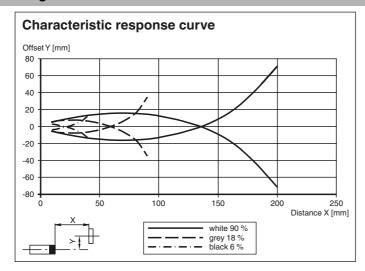
Mounting bracket

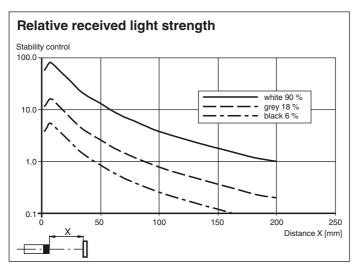
Other suitable accessories can be found at www.pepperl-fuchs.com

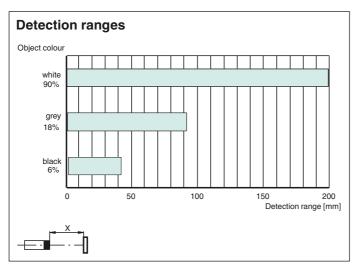
PEPPERL+FUCHS

power supply; Type 1 enclosure)

Curves/Diagrams







www.pepperl-fuchs.com