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Model Number

ML100-8-1000-RT/95/103

Diffuse mode sensor with 4-pin, M8 x 1 connector

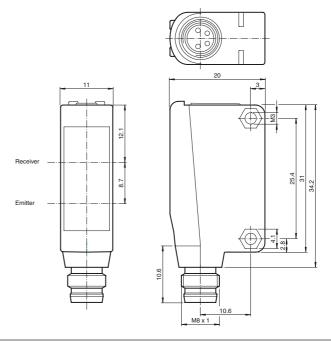
Features

- 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

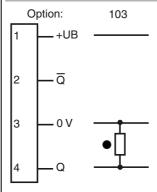
Product information

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

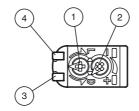


- O = Light on
- = Dark on

Pinout



Indicators/operating means



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

Technical data General specifications 0 ... 1000 mm Detection range Adjustment range 100 ... 1000 mm Reference target standard white, 100 mm x 100 mm Light source modulated visible red light Light type Approvals CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure) 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 parameters 860 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Operating display LED green: power on Function display LED yellow, lights up with receiver lit Controls sensitivity adjustment Controls Light/Dark switch **Electrical specifications** Operating voltage U_{B} 10 ... 30 V DC , class 2 max. 10 % Ripple No-load supply current < 20 mA Output Switching type light/dark on, switchable Signal output 1 PNP output, short-circuit protected, protected from reverse polarity, 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 f 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 Connection Male connector M8 x 1, 4-pin Material Housing PC (Polycarbonate) Optical face **PMMA** Mass approx. 10 g Compliance with standards and directi-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 Products with a maximum operating voltage of ≤36 V do not

Accessories

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

V31-WM-2M-PUR

4-pin, M8 socket, PUR cable

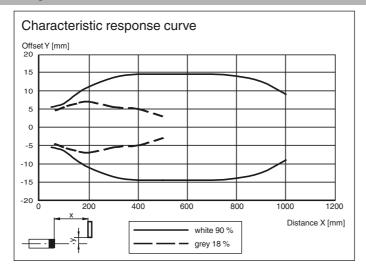
V31-GM-2M-PUR

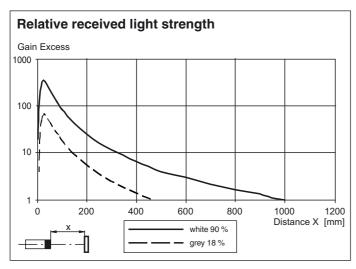
4-pin, M8 socket, PUR cable

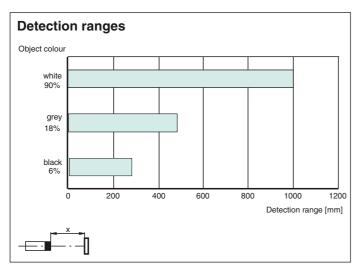
Other suitable accessories can be found at www.pepperl-fuchs.com

bear a CCC marking because they do not require approval.

Curves/Diagrams







www.pepperl-fuchs.com

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