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Model Number

ML100-8-H-350-RT/102/115

Background suppression sensor with 2 m fixed cable

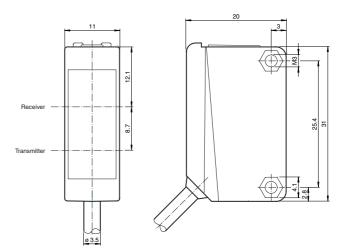
Features

- 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

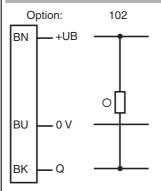
Product information

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

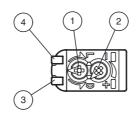


Electrical connection



- 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 Detection range 5 ... 350 mm Detection range min. 5 ... 30 mm Detection range max 5 ... 350 mm Adjustment range 30 ... 350 mm standard white, 100 mm x 100 mm Reference target Light source Light type modulated visible red light Polarization filter no Black/White difference (6 %/90 %) < 18 % at 350 mm Diameter of the light spot approx. 20 mm at a distance of 350 mm Angle of divergence approx. 4 Optical face frontal EN 60947-5-2 Ambient light limit 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 when object is detected Control elements Detection range adjuster Control elements Light/Dark switch **Electrical specifications** Operating voltage U_B 10 ... 30 V DC , class 2 max. 10 % Ripple No-load supply current I_0 < 20 mAOutput Switching type light/dark on, switchable Signal output 1 NPN 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 U_{d} Switching frequency 500 Hz Response time 1 ms **Ambient conditions** Ambient temperature -30 ... 60 °C (-22 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Degree of protection IP67 2 m fixed cable Connection Material Housing PC (Polycarbonate) Optical face **PMMA** Mass approx. 50 g Cable length 2 m Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC EN 60947-5-2 Standard conformity Standards UI 508 Approvals and certificates cULus Listed, Class 2 Power Source, Type 1 enclosure **UL** approval CCC approval CCC approval / marking not required for products rated ≤36 V CE, cULus Listed 57M3 (Only in association with UL Class 2 Approvals 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

Curves/Diagrams

