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Model Number

ML100-8-H-250-RT/103/115

Background suppression sensor with 2 m fixed cable

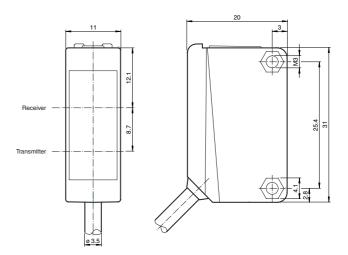
Features

- 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

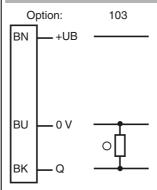
Product information

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

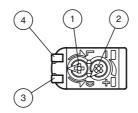


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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



Detection range min. 5 250 mm Detection range max. 5 250 mm Detection range max. 5 250 mm Adjustment range Reference target standard white, 100 mm x 100 mm Light source LED Light type modulated visible red light Polarization filter no Biack/White difference (6 %90 %) < 15 % at 250 mm Diameter of the light spot Angle of divergence approx. 4 * frontal Ambient light limit EN 60947-5-22007+A1:2012 Functional safety related parameters MTTF _Q Mission Time (T _M) 20 a Diagnostic Coverage (DC) Indicators/operating means Operation indicator LED yellow: lights when object is detected Control elements Control elements Light-on/dark-on changeover switch Electrical specifications Operating voltage U _B 10 30 V DC Ripple No-load supply current I ₀ < 20 mA Output Switching type The switching type of the sensor is adjustable. The default setting is: light on Switching voltage Max 30 V DC Switching current Max 30 V DC Switching requency f 1000 Hz Switching requency f 1000 Hz Response time 500 µs Ambient conditions Ambient conditions Ambient conditions Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -40 70 °C (-40 158 °F) Mechanical specification Housing Height 31 mm Housing Height 32 mm Compliance with standards and directives Directive conformity EMC Directive 2004/108/CC EN 60947-5-2 2007+A1:2012 Standards UL approval	Technical data					
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UL approval cULus Listed, Class 2 Power Source or listed Power Supply	Standards		UL 60947-5-2			
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with a limited voltage output with (maybe integrated) fuse (max. 3.3 A according UL248), Type 1 enclosure			with a limited voltage output with (maybe integrated) fuse			
CCC approval CCC approval / marking not required for products rated ≤36 V	CCC approval					

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

EPPERL+FUCHS

Curves/Diagrams

