Dimensions



CE

### **Model Number**

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

Background suppression sensor with 2 m fixed cable

#### **Features**

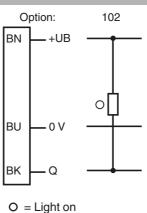
- Miniature design •
- Easy to use •
- Very bright, highly visible light spot •
- Full metal thread mounting •
- Highly visible LEDs for Power ON and switching state
- Not sensitive to ambient light ٠

#### **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.

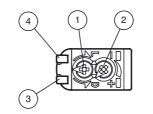
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#### **Electrical connection**



= Dark on

#### Indicators/operating means



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

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www.pepperl-fuchs.com

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

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

General specifications		
Detection range		5 350 mm
Detection range min.		5 30 mm
Detection range max.		5 350 mm
Adjustment range		30 350 mm
Reference target		standard white, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light
Polarization filter		no no
	0/)	
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
Ambient light limit		EN 60947-5-2:2007+A1:2012
Functional safety related para	meters	
MTTF <sub>d</sub>		860 a
Mission Time (T <sub>M</sub> )		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		Sensing range adjuster
Control elements		Light-on/dark-on changeover switch
		Light on/dark on changeover switch
Electrical specifications		10 001/100
Operating voltage	UB	10 30 V DC
Ripple		max. 10 %
No-load supply current	I <sub>0</sub>	< 20 mA
Output		
Switching type		The switching type of the sensor is adjustable. The default s ting is: light on
Signal output		1 NPN output, short-circuit protected, reverse polarity protec open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA , resistive load
Voltage drop	U <sub>d</sub>	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		1 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		PO (Debugethermote)
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 50 g
Tightening torque, fastening sc	rews	0.6 Nm
Cable length		2 m
Compliance with standards ar ves	nd directi	-
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012
Standard conformity		
Standards		UL 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source or listed Power Supply
		with a limited voltage output with (maybe integrated) fuse (max. 3.3 A according UL248), Type 1 enclosure

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

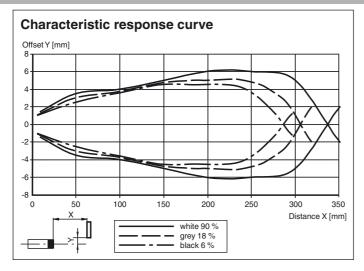
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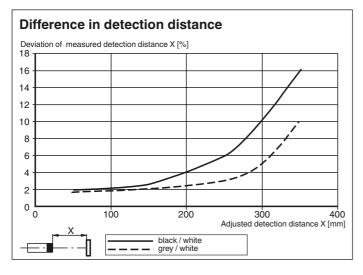
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# **Curves/Diagrams**





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