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Model Number

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

Background suppression sensor with 2 m fixed cable

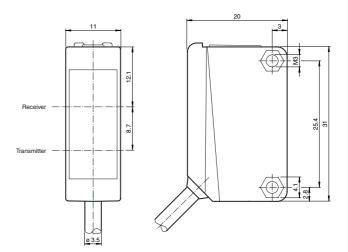
Features

- 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

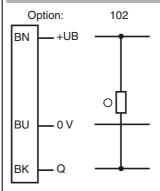
Product information

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

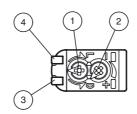


Electrical connection



- 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	
Reference target		standard white, 100 mm x 100 mm	
Light source		LED	
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	
Ambient light limit		EN 60947-5-2	
Functional safety related para	meters		
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 when object is detected	
Control elements		Detection range adjuster	
Control elements		Light/Dark switch	
Electrical specifications		_g	
Operating voltage	U _B	10 30 V DC , class 2	
Ripple	ОВ	max. 10 %	
No-load supply current	In	< 20 mA	
Output	-0	120	
Switching type		light/dark on, switchable	
Signal output		1 NPN output, short-circuit protected, reverse polarity protected,	
Olginal Galpat		open collector	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA , resistive load	
Voltage drop	U _d	≤ 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			
Housing		PC (Polycarbonate)	
Optical face		PMMA	
Mass		approx. 50 g	
Cable length		2 m	
Compliance with standards ar	nd direct	i-	
Directive conformity			
EMC Directive 2004/108/EC		EN 60947-5-2	
Standard conformity			
Standards		UL 508	
Approvals and certificates			
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure	
CCC approval		CCC approval / marking not required for products rated ≤36 V	
Approvals		CE, cULus Listed 57M3 (Only in association with UL Class 2	
pp. 013.00		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

EPPERL+FUCHS

Curves/Diagrams

