





CE



Model Number

ML100-8-H-200-IR/102/115

Background suppression sensor with 2 m fixed cable

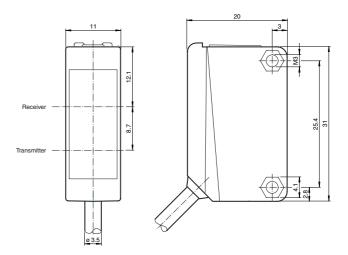
Features

- Miniature design
- · Full metal thread mounting
- · Infrared light design

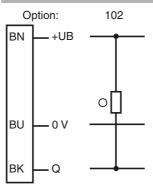
Product information

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

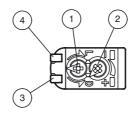


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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



Technical data			
General specifications			
Detection range		5 200 mm	
Detection range min.		5 30 mm	
Detection range max.		5 200 mm	
Adjustment range		30 200 mm	
Reference target		standard white, 100 mm x 100 mm	
•		LED	
Light type		modulated infrared light	
Light type Polarization filter		no	
Black/White difference (6 %/90 %)		< 20 % at 200 mm	
Diameter of the light spot		approx. 12 mm at a distance of 200 mm	
		approx. 4°	
Angle of divergence		frontal	
Optical face		EN 60947-5-2:2007+A1:2012	
Ambient light limit		EN 60947-5-2:2007+A1:2012	
Functional safety related parar	neters		
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		Sensing range adjuster	
Control elements		Light-on/dark-on changeover switch	
Electrical specifications			
Operating voltage	U _B	10 30 V DC	
Ripple		max. 10 %	
No-load supply current	In	< 20 mA	
Output	Ů		
Switching type		The switching type of the sensor is adjustable. The default set-	
Signal output		ting is: light on 1 NPN output, short-circuit protected, reverse polarity protected	
		open collector max. 30 V DC	
Switching voltage			
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	
Tightening torque, fastening scr	ews	0.6 Nm	
Cable length		2 m	
Compliance with standards an ves	d direct	i-	
Directive conformity EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012	
		EIV 00347-3-2.2007+A1.2012	
Standard conformity		LII 00047 F 0	
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	
CCC approval		CCC approval / marking not required for products rated <06 V	

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

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

