3







Model Number

ML100-8-H-350-RT/95/103

Background suppression sensor with 4-pin, M8 x 1 connector

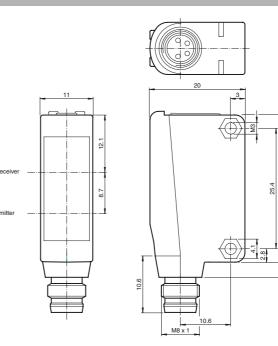
Features

- 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

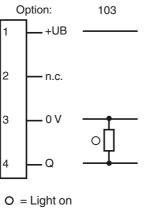
Product information

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

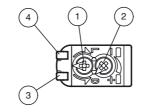




Pinout



Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data			Accessories
General specifications			OMH-ML100-0
Detection range		5 350 mm	Mounting aid fo
Detection range min.		5 30 mm	sheet 1.5 mm
Detection range max.		5 350 mm	511001 1.0 11111
Adjustment range		30 350 mm	OMH-ML100-0
Reference target		standard white, 100 mm x 100 mm	Mounting brack
Light source		LED	•
Light type		modulated visible red light	OMH-ML100-0
Black/White difference (6 %/90 %)		< 18 % at 350 mm	Mounting brack
Diameter of the light spot		approx. 20 mm at a distance of 350 mm	
Angle of divergence		approx. 4 °	OMH-F10-ML1 Mounting aid fo OMH-10
Optical face		frontal	
Ambient light limit		EN 60947-5-2	
Functional safety related para	neters		
MTTF _d		860 a	Mounting aid
Mission Time (T _M)		20 a	V31-GM-2M-PI
Diagnostic Coverage (DC)		0 %	Female cordset
Indicators/operating means			i entale coluser
Operation indicator		LED green: power on	V31-WM-2M-P
Function indicator		LED yellow: lights when object is detected	Female cordset
Control elements		Detection range adjuster	
Control elements		Light/Dark switch	OMH-ML100-S
Electrical specifications		-	Mounting brack
Operating voltage	UB	10 30 V DC , class 2	
Ripple	U	max. 10 %	Other suitable a
No-load supply current	I ₀	< 20 mA	www.pepperl-fucl
Output	0		
Switching type		light/dark on, switchable	
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, 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			
Protection degree		IP67	
Connection		connector M8 x 1, 4-pin	
Material			
Housing		PC (Polycarbonate)	
Optical face		PMMA	
Mass		approx. 10 g	
Compliance with standards an ves	d direct	-	
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 \leq 36 V	
Approvals		CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)	

03 or round steel ø 12 mm or ... 3 mm

04 ket

05 ket

.100 or ML100 series

VR et, M8, 4-pin, PUR cable

PUR et, M8, 4-pin, PUR cable

S1 ket

accessories can be found at chs.com

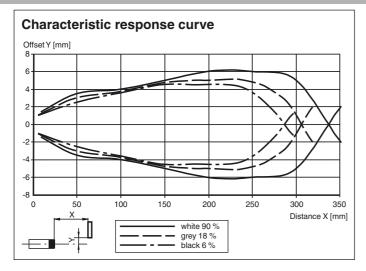
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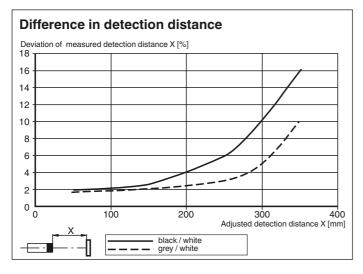
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Curves/Diagrams





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