Dimensions







Model Number

ML100-54/59/82a/103/115a/154

Retroreflective sensor with polarization filter

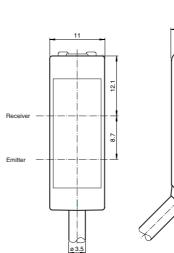
with fixed cable and 4-pin, M8 connector

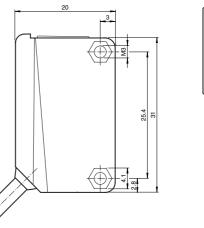
Features

- ٠ No controls
- Miniature design
- Easy to use •
- Clearly visible LEDs for Power ON, switching state and weak signal indication
- Very bright, highly visible light spot
- Full metal thread mounting •
- Not sensitive to ambient light ٠

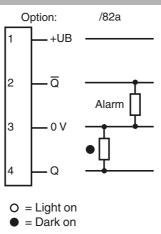
Product information

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.





Electrical connection

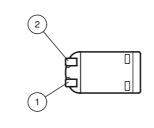


Pinout



Indicators/operating means

 $^{2}_{1}$



1	Signal display	yellow
2	Operating display	green

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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



UL approval

CCC approval

Approvals and certificates

Theoremeetive	SCHOOL		n 100-34/33/02d	
Technical data			Accessories	
General specifications			OMH-ML100-01	
Effective detection range		0 3.5 m	Mounting aid for ML1 bracket	
Reflector distance		0.01 3.5 m		
Threshold detection range		4.5 m		
Reference target		H50 reflector	OMH-ML100-02 Mounting aid for ML1 bracket	
Light source		LED		
Light type		modulated visible red light		
Polarization filter		yes		
Diameter of the light spot		approx. 350 mm at a distance of 4.5 m	OMH-ML100-03	
Angle of divergence		approx. 4 °	Mounting aid for roun sheet 1.5 mm 3 mr	
Optical face		frontal		
Ambient light limit		EN 60947-5-2:2007+A1:2012		
Functional safety related part	rameters		OMH-ML100-04	
MTTF _d		860 a	Mounting aid for ML1	
Mission Time (T _M)		20 a	bracket	
Diagnostic Coverage (DC)		0 %	OMUL MI 100.05	
Indicators/operating means			OMH-ML100-05	
Operation indicator		LED green: power on	Mounting aid for ML1	
Function indicator		LED yellow: lights up when receiving the light beam ; flashes	bracket	
		when falling short of the stability control; OFF when light beam is	OMH-ML100-08	
		interrupted		
Electrical specifications			Mounting aid for ML1	
Operating voltage	UB	10 30 V DC	OMH-10	
Ripple		max. 10 %	Mounting aid	
No-load supply current	I ₀	< 20 mA	into an tang ala	
Output			OMH-F10-ML100	
Pre-fault indication output		1 PNP, active when falling short of the stability control	Mounting aid for ML1	
Switching type		dark on		
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector	REF-H85-2 Reflector, rectangula	
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA , resistive load ; Pre-fault output \leq 50 mA	84.5 mm, mounting h	
Voltage drop	Ud	≤ 1.5 V DC	REF-C110-2	
Switching frequency	f	1000 Hz		
Response time		0.5 ms	Reflector, round ø 84	
Ambient conditions			mounting hole	
Ambient temperature		-30 60 °C (-22 140 °F)	REF-H60-2	
Storage temperature		-40 70 °C (-40 158 °F)	Reflector with mounti	
Mechanical specifications				
Housing width		11 mm	REF-H50	
Housing height		31 mm	Reflector, rectangular mounting holes, fixing	
Housing depth		20 mm		
Degree of protection		IP67	3 3 1 3	
Connection		300 mm fixed cable with M8 connector, 4-pin	REF-H33	
Material		···· ···· ··· ··· · · · · · · · · · ·	Reflector with screw	
Housing		PC (Polycarbonate)	055 70 0	
Optical face		PMMA	OFR-70-2	
Mass		approx. 20 g	Reflective tape 70 mr	
Tightening torque, fastening s	crews	0.6 Nm	Other suitable accesso www.pepperl-fuchs.com	
Cable length		0.3 m		
Compliance with standards a directives	and			
Directive conformity				
EMC Directive 2004/108/EC	2	EN 60947-5-2:2007+A1:2012		
Standard conformity				
Standards		UL 60947-5-2		
Approvals and certificates				

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 / marking not required for products rated ≤36 V 100 series, Mounting

100 series, Mounting

ind steel ø 12 mm or ۱m

100 series, Mounting

100 series, Mounting

100 series, Snap-in

100 series

ar 84.5 mm x holes

4 mm, central

ting holes

ar 51 mm x 61 mm, ng strap

fixing

1m x 70 mm

ories can be found at m

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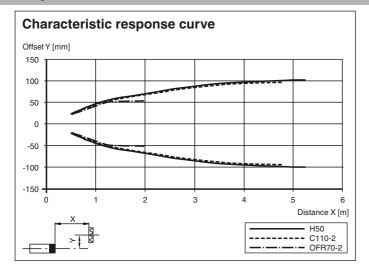
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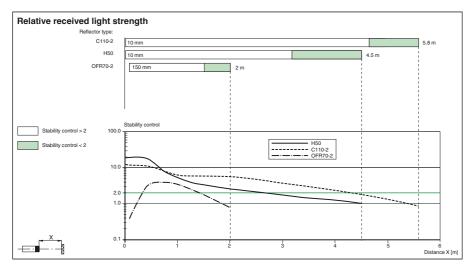
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Curves/Diagrams





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