Dimensions





CE

Model Number

ML100-55/103/115

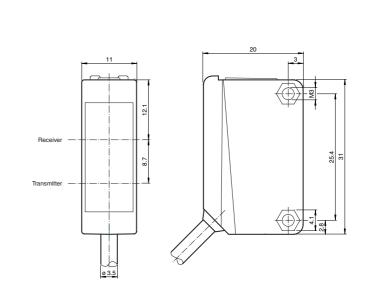
Retroreflective sensor with 2 m fixed cable

Features

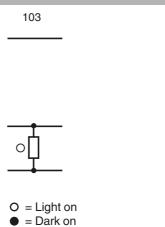
- Miniature design ٠
- Easy to use ٠
- Clearly visible LEDs for Power ON, ٠ switching state and weak signal indication
- Full metal thread mounting •
- Very bright, highly visible light spot .
- Not sensitive to ambient light ٠

Product information

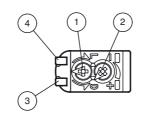
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.



Electrical connection



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

Pepperl+Fuchs Group www.pepperl-fuchs.com 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



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	Accessories	
0 5 m	OMH-F10-ML100	
0.01 5 m	Mounting aid for ML100 series	
7 m	OMH-ML100-01	
H50 reflector	Mounting aid for ML100 series, Mounting	
LED	bracket	
modulated visible red light	OMH-ML100-02	
yes approx. 500 mm at a distance of 7 m	Mounting aid for ML100 series, Mounting	
approx. 4 °	bracket	
frontal	bideket	
EN 60947-5-2:2007+A1:2012	OMH-ML100-03 Mounting aid for round steel ø 12 mm or	
860 a	sheet 1.5 mm 3 mm	
20 a	OMH-ML100-04	
0 %	Mounting aid for ML100 series, Mounting bracket	
LED green: power on LED yellow: lights up when receiving the light beam ; flashes		
when falling short of the stability control; OFF when light beam is interrupted	OMH-ML100-05 Mounting aid for ML100 series, Mounting	
sensitivity adjustment	bracket	
Light-on/dark-on changeover switch	OMH-10	
10 30 V DC	Mounting aid	
max. 10 %		
< 20 mA	REF-H85-2	
	Reflector, rectangular 84.5 mm x	
The switching type of the sensor is adjustable. The default set-	84.5 mm, mounting holes	
ting is: light on	REF-C110-2	
1 PNP output, short-circuit protected, reverse polarity protected, open collector	Reflector, round ø 84 mm, central moun-	
max. 30 V DC	ting hole	
max. 100 mA , resistive load		
≤ 1.5 V DC	REF-H60-2	
1000 Hz	Reflector with mounting holes	
0.5 ms	REF-H50	
	Reflector, rectangular 51 mm x 61 mm,	
-30 60 °C (-22 140 °F)	mounting holes, fixing strap	
-40 70 °C (-40 158 °F)		
1067	REF-H33	
IP67 2 m fixed cable	Reflector with screw fixing	
	OFR-70-2	
PC (Polycarbonate)	Reflective tape 70 mm x 70 mm	
PMMA		
approx. 50 g	REF-MH23-2	
0.6 Nm	Reflector with Micro-structure, rectangu-	
2 m	lar 23 mm x 14 mm, diagonal mounting	
-	hole	
	OMH-ML100-S1	
EN 60947-5-2:2007+A1:2012	Mounting bracket	
UL 60947-5-2	OMH-ML100-08 Mounting aid for ML100 series, Snap-in	
	Mounting aid for ML100 series, Snap-in	
	Other suitable accessories can be found at	
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	www.pepperl-fuchs.com	
CCC approval / marking not required for products rated ≤36 V	ŝ	
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Diameter of the light spot Angle of divergence Optical face Ambient light limit Functional safety related parameters

Technical data General specifications Effective detection range

Reflector distance

Reference target

Polarization filter

Light source Light type

Threshold detection range

MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) Indicators/operating means Operation indicator Function indicator

Control elements Control elements **Electrical specifications** Operating voltage Ripple No-load supply current Output Switching type Signal output Switching voltage Switching current Voltage drop Switching frequency Response time Ambient conditions Ambient temperature Storage temperature Mechanical specifications Degree of protection

Connection Material Housing Optical face Mass Tightening torque, fastening screws Cable length Compliance with standards and directives

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 approva

CCC approval

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USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

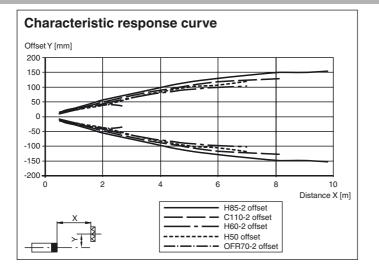
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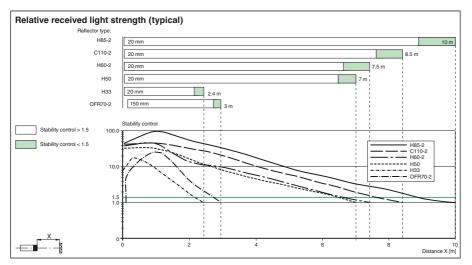
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Curves/Diagrams





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