

CE

Model Number

ML100-54/102/115

Retroreflective sensor with 2 m fixed cable

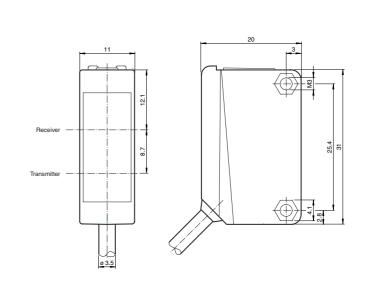
Features

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

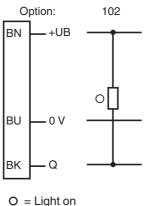
Product information

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

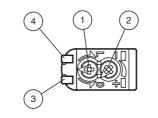


Electrical connection



$$\bullet$$
 = Dark on

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"

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	Accessories	
0 3.5 m	OMH-F10-ML100	
0.01 3.5 m	Mounting aid for ML100 series	
4.5 m	OMH-ML100-01	
H50 reflector		
LED	Mounting bracket	
modulated visible red light	OMH-ML100-02	
yes	Mounting bracket	
approx. 350 mm at a distance of 4.5 m	Wedning Bracket	
approx. 4 °	OMH-ML100-03	
frontal	Mounting aid for round steel ø 12 mm or	
EN 60947-5-2	sheet 1.5 mm 3 mm	
860 a	OMH-ML100-04	
20 a	Mounting bracket	
0%		
0 %	OMH-ML100-05	
175	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	OMH-10	
interrupted	Mounting aid	
sensitivity adjustment	REF-H85-2	
Light/Dark switch		
	Reflector, rectangular 84.5 mm x	
10 30 V DC , class 2	84.5 mm, mounting holes	
max. 10 %	REF-C110-2	
< 20 mA	Reflector, round ø 84 mm, central moun-	
< 20 IIIA		
	ting hole	
light/dark on, switchable	REF-H60-2	
1 NPN output, short-circuit protected, reverse polarity protected, open collector	Reflector with mounting holes	
max. 30 V DC	Reflector with mounting holes	
max. 100 mA , resistive load	REF-H50	
≤ 1.5 V DC	Reflector, rectangular 51 mm x 61 mm,	
1000 Hz	mounting holes, fixing strap	
0.5 ms	mounting holos, hang shap	
0.5 115	REF-H33	
20 C0 °C (20 140 °F)	Reflector with screw fixing	
-30 60 °C (-22 140 °F)	-	
-40 70 °C (-40 158 °F)	OFR-70-2	
10.7	Reflective tape 70 mm x 70 mm	
2 m fixed cable	REF-MH23-2	
PC (Polyasthanata)	Reflector with Micro-structure, rectangu-	
PC (Polycarbonate)	lar 23 mm x 14 mm, diagonal mounting	
PMMA	hole	
approx. 50 g	OMU MI 400.00	
0.6 Nm	OMH-ML100-08	
2 m	Mounting aid	
	Other suitable accessories can be found at	
	www.pepperl-fuchs.com	
EN 60947-5-2		
UL 508		
cULus Listed, Class 2 Power Source, Type 1 enclosure		
CCC approval / marking not required for products rated \leq 36 V		
CE, cULus Listed 57M3 (Only in association with UL Class 2		
power supply; Type 1 enclosure)		

Technical data

Technical data		
General specifications		
Effective detection range		0 3.5 m
Reflector distance		0.01 3.
Threshold detection range		4.5 m
Reference target		H50 reflect
Light source		LED
Light type		modulate
Polarization filter		yes
Diameter of the light spot		approx. 3
Angle of divergence		approx. 4
Optical face		frontal
Ambient light limit		EN 60947
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 gree
Function indicator		LED yello when fallir
		interrupte
Control elements		sensitivity
Control elements		Light/Darl
Electrical specifications		U
Operating voltage	UB	10 30 V
Ripple	- 0	max. 10
No-load supply current	I ₀	< 20 mA
Output	Ū	
Switching type		light/dark
Signal output		1 NPN ou
		open colle
Switching voltage		max. 30 V
Switching current		max. 100
Voltage drop	U _d	≤ 1.5 V D
Switching frequency	f	1000 Hz
Response time		0.5 ms
Ambient conditions		
Ambient temperature		-30 60
Storage temperature		-40 70
Mechanical specifications		
Degree of protection		IP67
Connection		2 m fixed
Material		
Housing		PC (Polyc
Optical face		PMMA
Mass		approx. 5
Tightening torque, fastening scr	ews	0.6 Nm 2 m
Cable length	ه مانه م	
Compliance with standards an ves	a airect	1-
Directive conformity		
EMC Directive 2004/108/EC		EN 60947
Standard conformity		
Standards		UL 508
Approvals and certificates		
UL approval		cULus Li
CCC approval		CCC app
Approvals		CE, cUL

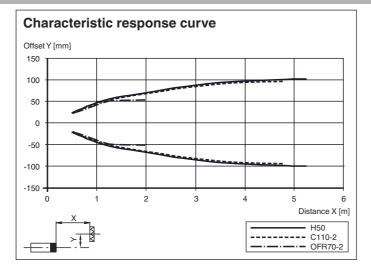
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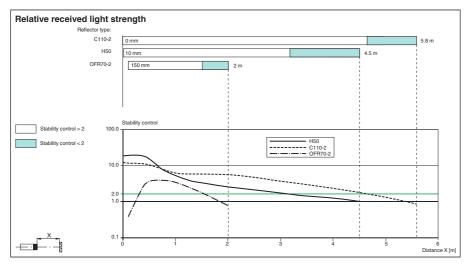
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Curves/Diagrams





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