

CE

Model Number

ML100-55/103/115

Retroreflective sensor with 2 m fixed cable

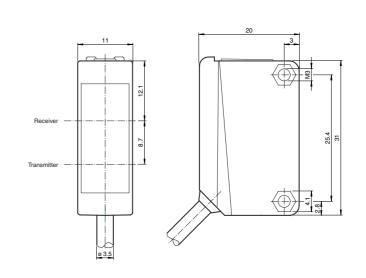
Features

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

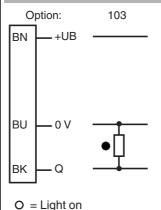
Product information

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.

Dimensions



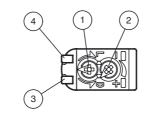
Electrical connection



$$D = Light on$$

 $= Dark on$

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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Technical data General specifications Effective detection range

Reflector distance

Reference target

Polarization filter

Ambient light limit

Mission Time (T_M)

Function indicator

Control elements

Control elements

Operating voltage

Ripple

Output

ves

Approvals

Electrical specifications

No-load supply current

Diagnostic Coverage (DC) Indicators/operating means Operation indicator

Light source

Optical face

 $\mathsf{MTTF}_{\mathsf{d}}$

Light type

Threshold detection range

Diameter of the light spot Angle of divergence

Functional safety related parameters

	Accessories	
0.5.	OMH-F10-ML100	
05 m	Mounting aid for ML100 series	
0.01 5 m		
7 m	OMH-ML100-01	
H50 reflector LED	Mounting bracket	
	OMH-ML100-02	
modulated visible red light yes	Mounting bracket	
approx. 500 mm at a distance of 7 m	Mounting bracket	
approx. 500 mm at a distance of 7 m	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 /0	OMH-ML100-05	
LED groop: power on	Mounting bracket	
LED green: power on LED yellow: lights up when receiving the light beam ; flashes	OMH-10	
when falling short of the stability control; OFF when light beam is interrupted	Mounting aid	
sensitivity adjustment	REF-H85-2	
Light/Dark switch	Reflector, rectangular 84.5 mm x	
5	-	
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-	
	ting hole	
light/dark on, switchable		
1 PNP output, short-circuit protected, reverse polarity protected,	REF-H60-2	
open collector	Reflector with mounting holes	
max. 30 V DC		
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		
	REF-H33	
-30 60 °C (-22 140 °F)	Reflector with screw fixing	
-40 70 °C (-40 158 °F)	OFR-70-2	
	Reflective tape 70 mm x 70 mm	
IP67		
2 m fixed cable	REF-MH23-2	
	Reflector with Micro-structure, rectangu-	
PC (Polycarbonate)	lar 23 mm x 14 mm, diagonal mounting	
PMMA	hole	
approx. 50 g		
2 m	OMH-ML100-S1	
-	Mounting bracket	
	-	
	OMH-ML100-08	
EN 60947-5-2	Mounting aid	
	Other suitable appearing can be found at	
UL 508	Other suitable accessories can be found at	
	www.pepperl-fuchs.com	
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)		

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light/dark on Switching type 1 PNP outpu Signal output open collect Switching voltage max. 30 V D max. 100 mA Switching current Voltage drop Ud \leq 1.5 V DC 1000 Hz Switching frequency f Response time 0.5 ms Ambient conditions -30 ... 60 °C Ambient temperature -40 ... 70 °C Storage temperature **Mechanical specifications** IP67 Degree of protection Connection 2 m fixed cal Material Housing PC (Polycart Optical face PMMA Mass approx. 50 g Cable length 2 m Compliance with standards and directi-Directive conformity EMC Directive 2004/108/EC EN 60947-5-Standard conformity Standards UL 508 Approvals and certificates cULus Liste UL approval CCC approval

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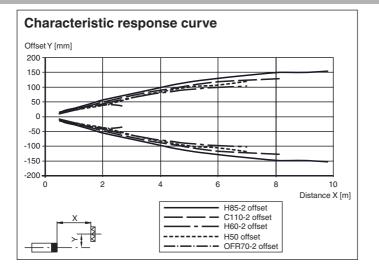
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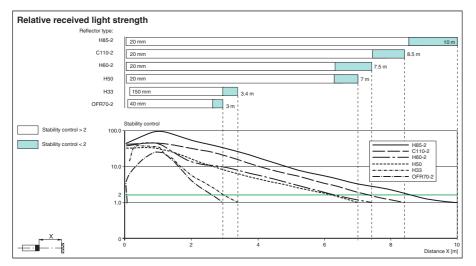
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Curves/Diagrams





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