

Dimensions





Model Number

ML100-55/115b/120

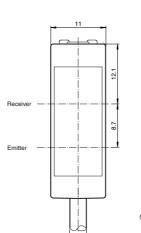
Retroreflective sensor with fixed cable and M12 connector, 4-pin

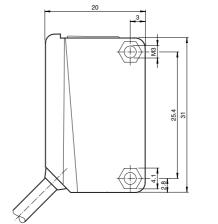
Features

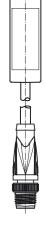
- Miniature design
- · Easy to use
- Clearly visible LEDs for Power ON, switching state and stability control
- Very bright, highly visible light spot
- Full metal thread mounting
- Not sensitive to ambient light

Product information

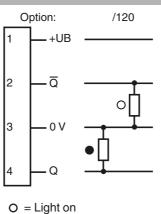
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly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







Electrical connection

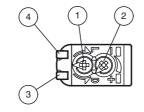


= Dark on

Pinout



Indicators/operating means



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

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical data			Accesso
General specifications			OMH-F10
Effective detection range		0 5 m	Mounting
Reflector distance		0.01 5 m	Wounding
Threshold detection range		7 m	OMH-ML1
Reference target		H50 reflector	Mounting
Light source		LED	
Light type		modulated visible red light	OMH-ML1
Diameter of the light spot		approx. 500 mm at a distance of 7 m	Mounting
Angle of divergence		approx. 4 °	OMH-ML1
Optical face		frontal	
Ambient light limit		EN 60947-5-2	Mounting
Functional safety related paran	neters		sheet 1.5 ı
MTTF _d		860 a	OMH-ML1
Mission Time (T _M)		20 a	Mounting
Diagnostic Coverage (DC)		0 %	wounting
Indicators/operating means			OMH-ML1
Operation indicator		LED green: power on	Mounting
Function indicator		LED yellow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted	OMH-10 Mounting
Control elements		sensitivity adjustment	wounting
Control elements		Light/Dark switch	REF-H85-
Electrical specifications			Reflector,
Operating voltage	UB	10 30 V DC , class 2	84.5 mm,
Ripple		max. 10 %	
No-load supply current	I ₀	< 20 mA	REF-C110
Output			Reflector,
Switching type		light/dark on, switchable	ting hole
Signal output		2 PNP outputs, complementary, short-circuit protected, reverse polarity protected, open collector	REF-H60-
Switching voltage		max. 30 V DC	Reflector v
Switching current		max. 100 mA , resistive load	
Voltage drop	U _d	≤ 1.5 V DC	REF-H50
Switching frequency	f	1000 Hz	Reflector,
Response time		0.5 ms	mounting l
Ambient conditions			REF-H33
Ambient temperature		-30 60 °C (-22 140 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	Reflector v
Mechanical specifications			OFR-70-2
Protection degree		IP67	Reflective
Connection		300 mm fixed cable with 4-pin, M12 x 1 connector	
Material			Other suita
Housing		PC (Polycarbonate)	www.peppe
Optical face		PMMA	
Mass		approx. 20 g	
Cable length		0.3 m	
Compliance with standards and ves	directi	-	
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 <36 V	

UL approval CCC approval Approvals

> 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)

ories

0-ML100 aid for ML100 series

100-01 bracket

100-02 bracket

100-03 aid for round steel ø 12 mm or mm ... 3 mm

100-04 bracket

100-05 bracket

aid

-2 rectangular 84.5 mm x mounting holes

0-2 round ø 84 mm, central moun-

-2 with mounting holes

rectangular 51 mm x 51 mm, holes, fixing strap

with screw fixing

2 e tape 70 mm x 70 mm

able accessories can be found at perl-fuchs.com

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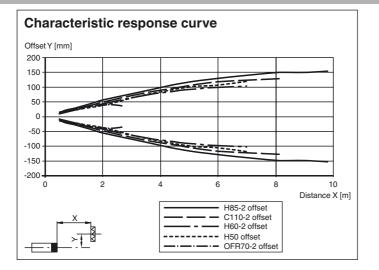
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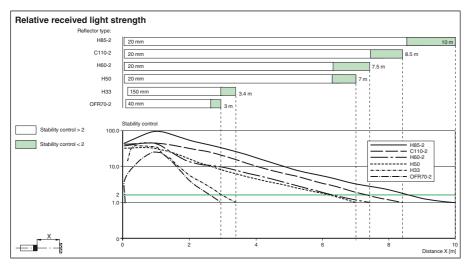
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Curves/Diagrams





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