





Model Number

ML100-55/25/95/103/154

Retroreflective sensor with 4-pin, M8 x 1 connector

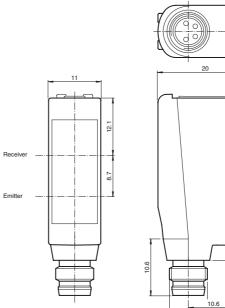
Features

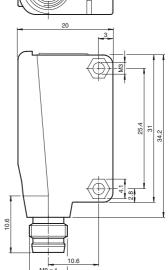
- No controls
- Miniature design
- · Easy to use
- Clearly visible LEDs for Power ON, switching state and stability control
- Very bright, highly visible light spot
- Full metal thread mounting
- Not sensitive to ambient light

Product information

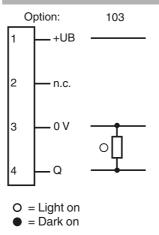
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly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







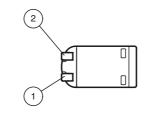
Electrical connection



Pinout



Indicators/operating means



1	Signal display	yellow
2	Operating display	green

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

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Technical data	Гес	chn	ical	data
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General specifications			
Effective detection range		0 5 m	
Reflector distance		0.01 5 m	
Threshold detection range		7 m	
Reference target		H50 reflector	
Light source		LED	
Light type		modulated visible red light	
Diameter of the light spot		approx. 500 mm at a distance of 7 m	
Angle of divergence		approx. 4 °	
Optical face		frontal	
Ambient light limit		EN 60947-5-2	
Functional safety related param	neters		
MTTFd		860 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Operation indicator		LED green: power on	
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	
Electrical specifications			
Operating voltage	UB	10 30 V DC , class 2	
Ripple		max. 10 %	
No-load supply current	I ₀	< 20 mA	
Output	0		
Switching type		light on	
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA , resistive load	
Voltage drop	U _d	≤ 1.5 V DC	
Switching frequency	f	1000 Hz	
Response time		0.5 ms	
Ambient conditions			
Ambient temperature		-30 60 °C (-22 140 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Protection degree		IP67	
Connection		connector M8 x 1, 4-pin	
Material			
Housing		PC (Polycarbonate)	
Optical face		РММА	
Mass		approx. 50 g	
Cable length		0.3 m	
Compliance with standards and ves	direct	i-	
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	

cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated ≤36 V CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

Accessories

OMH-F10-ML100 Mounting aid for ML100 series

OMH-ML100-01 Mounting bracket

OMH-ML100-03 Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04 Mounting bracket

OMH-ML100-05 Mounting bracket

OMH-10 Mounting aid

REF-H85-2 Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

REF-C110-2 Reflector, round ø 84 mm, central mounting hole

REF-H60-2 Reflector with mounting holes

REF-H50 Reflector, rectangular 51 mm x 51 mm, mounting holes, fixing strap

REF-H33 Reflector with screw fixing

OFR-70-2 Reflective tape 70 mm x 70 mm

V31-WM-2M-PUR Female cordset, M8, 4-pin, PUR cable

V31-GM-2M-PUR Female cordset, M8, 4-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

2

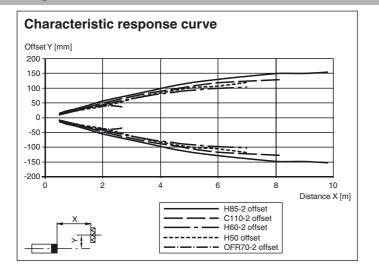
CCC approval

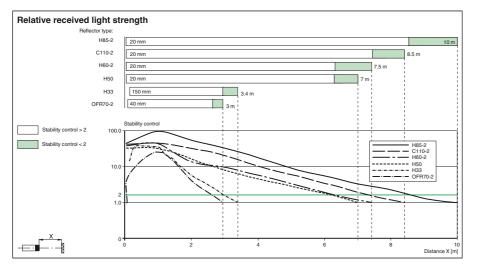
Approvals

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Curves/Diagrams





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