





Model Number

ML100-55-6086/103

Retroreflective sensor with 2 m fixed cable

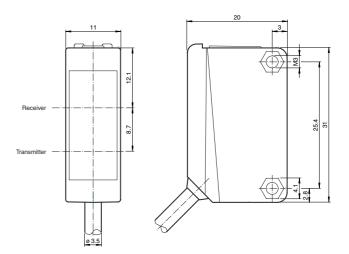
Features

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

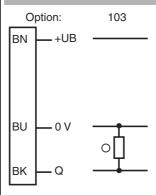
Product information

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

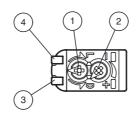


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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



Technical data		
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
Polarization filter		yes
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 parame	ters	
MTTF _d		860 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: power on LED yellow: switching state
Control elements		sensitivity adjustment
Control elements		Light/Dark switch
Electrical specifications		
Operating voltage	U _B	10 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	l ₀	< 20 mA
Output		
Switching type		light/dark on, switchable
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	500 Hz
Response time		1 ms
Ambient conditions		00 00 (00 1 1 0 0 0
Ambient temperature		-30 60 °C (-22 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		2 m fixed cable
Material		DO (Dalisa ariba araba)
Housing		PC (Polycarbonate)
Optical face Mass		PMMA
Cable length		approx. 50 g
•	al! a.k!	2 m
Compliance with standards and ves	airecu-	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
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
Approvals		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-ML100-02

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 61 mm, mounting holes, fixing strap

Reflector with screw fixing

OFR-70-2

Reflective tape 70 mm x 70 mm

REF-MH23-2

Reflector with Micro-structure, rectangular 23 mm x 14 mm, diagonal mounting hole

OMH-ML100-S1

Mounting bracket

OMH-ML100-08

Mounting aid

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

PEPPERL+FUCHS

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Curves/Diagrams

