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Model Number

ML100-55/102/115

Retroreflective sensor with 2 m fixed cable

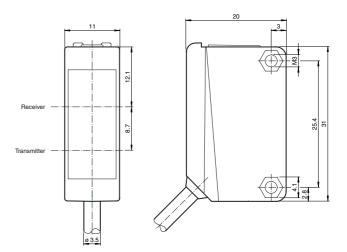
Features

- 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

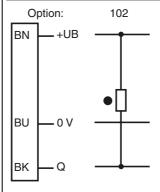
Product information

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.

Dimensions

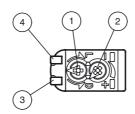


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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



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. 2 °		
Optical face		frontal		
Ambient light limit		EN 60947-5-2		
Functional safety related parame	eters			
MTTF _d		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		
Control elements		sensitivity adjustment		
Control elements		Light/Dark switch		
Electrical specifications				
Operating voltage	UB	10 30 V DC , class 2		
Ripple		max. 10 %		
No-load supply current	I _O	< 20 mA		
Output	Ţ,			
Switching type		light/dark on, switchable		
Signal output		1 NPN 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				
Degree of protection		IP67		
Connection		2 m fixed cable		
Material				
Housing		PC (Polycarbonate)		
Optical face		PMMA		
Mass		approx. 50 g		
Cable length		2 m		
Compliance with standards and directives				
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		
Approvals		CE, cULus Listed 57M3 (Only in association with UL Class 2		
rr - · · ·		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

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-ML100-08

Mounting aid

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

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Curves/Diagrams

