





(€



Model Number

ML100-54-F/25/102/115/154

Retroreflective sensor fixed cable

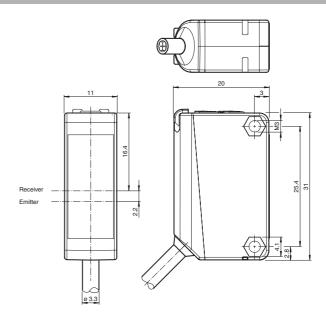
Features

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

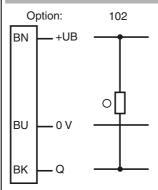
Product information

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

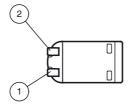


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



1	Signal display	yellow
2	Operating display	green



Technical data				
General specifications				
Effective detection range		0 2.7 m		
Reflector distance		0.02 2.7 m		
Threshold detection range		3 m		
Reference target		H50 reflector		
Light source		LED		
Light type		modulated visible red light		
Polarization filter		yes		
Diameter of the light spot		approx. 200 mm at a distance of 3 m		
Angle of divergence		approx. 4°		
Optical face		frontal		
Ambient light limit		EN 60947-5-2:2007+A1:2012		
Functional safety related parameters				
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		
Turiolio i i i i i i i i i i i i i i i i i		when falling short of the stability control; OFF when light beam is interrupted		
Electrical specifications				
Operating voltage	U _B	10 30 V DC		
Ripple		max. 10 %		
No-load supply current	I _O	< 20 mA		
Output				
Switching type		light on		
Signal output		1 NPN output, short-circuit protected, reverse polarity protected,		
Switching voltage		open collector 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		ole ille		
Ambient temperature		-30 60 °C (-22 140 °F)		
Storage temperature		-40 70 °C (-42 158 °F)		
- '		-40 70 C (-40 156 F)		
Mechanical specifications		44		
Housing width		11 mm		
Housing height		31 mm		
Housing depth		20 mm		
Degree of protection Connection		IP67		
		2 m fixed cable		
Material		DC (Palicanhanata)		
Housing		PC (Polycarbonate) PMMA		
Optical face				
Mass		approx. 50 g		
Tightening torque, fastening screw	/S	0.6 Nm		
Cable length		2 m		
Compliance with standards and directives				
Directive conformity				
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012		
Standard conformity				
Standards		UL 60947-5-2		
Assessment and additional as				
Approvals and certificates				
UL approval		cULus Listed, Class 2 Power Source or listed Power Supply with a limited voltage output with (maybe integrated) fuse (max. 3.3 A according UL248), Type 1 enclosure		
CCC approval		CCC approval / marking not required for products rated ≤36 V		

Accessories

OMH-F10-ML100

Mounting aid for ML100 series

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-05

Mounting aid for ML100 series, 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

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

OMH-ML100-08

Mounting aid for ML100 series, Snap-in

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

Curves/Diagrams

