Dimensions





Model Number

ML100-6-IR/103/115

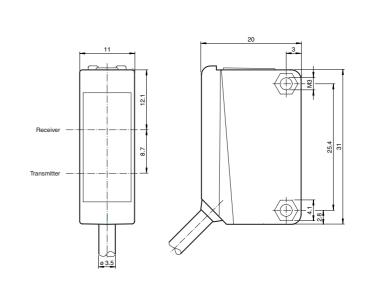
Retroreflective sensor with 2 m fixed cable

Features

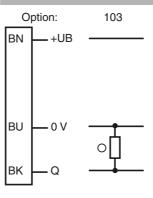
- User-friendliest photoelectric sensor • series for standard applications
- Miniature design ٠
- Not sensitive to ambient light •
- Metal-reinforced fastening holes
- Version with infrared light •

Product information

The ML100 series comprises a complete family of photoelectric sensors which are ideally suited for applications where long ranges and a high level of reliability are required. Due to their miniature design, the ML100 series sensors are also suitable for use in extremely confined areas. During operation, the ML 100 miniature sensors are characterized by a high performance Infrared-LED, extremely low power consumption and insensitivity to ambient lighting. The status LEDs, which are highly visible from all sides, provide clear information regarding reliable operation. Secure mounting is ensured by the threaded metal bushing. This means that the threading is more durable and enables maximum tightening torque.



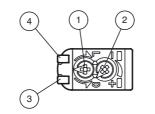
Electrical connection



$$O = Light on$$

 $\bullet = Dark on$

Indicators/operating means



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

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data		Accessories
General specifications		OMH-ML100-01
Effective detection range	0 5 m	Mounting aid for ML100 series, Mounting
Reflector distance	0.01 5 m	bracket
Threshold detection range	7 m	Diackel
Reference target	H50 reflector	OMH-ML100-02
Light source	IRED	Mounting aid for ML100 series, Mounting
Light type	modulated infrared light	bracket
Polarization filter	no	
Diameter of the light spot	approx. 500 mm at a distance of 7 m	OMH-ML100-04
Angle of divergence	approx. 4 °	Mounting aid for ML100 series, Mounting
Optical face	frontal	bracket
Ambient light limit	EN 60947-5-2:2007+A1:2012	
Functional safety related parameter	ers	OMH-ML100-05
MTTF _d	860 a	Mounting aid for ML100 series, Mounting
Mission Time (T _M)	20 a	bracket
Diagnostic Coverage (DC)	0 %	
Indicators/operating means		OMH-ML100-08
Operation indicator	LED green: power on	Mounting aid for ML100 series, Snap-in
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-F10-ML100 Mounting aid for ML100 series
Control elements	sensitivity adjustment	
Control elements	Light-on/dark-on changeover switch	OMH-10
Electrical specifications		Mounting aid
Operating voltage l	J _B 10 30 V DC	OMH-ML100-03
Ripple	max. 10 %	Mounting aid for round steel ø 12 mm or
No-load supply current	₀ < 20 mA	sheet 1.5 mm 3 mm
Output		
Switching type	The switching type of the sensor is adjustable. The default set- ting is: light on	REF-H33 Reflector with screw fixing
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector	Other suitable accessories can be found at
Switching voltage	max. 30 V DC	www.pepperl-fuchs.com
Switching current	max. 100 mA , resistive load	
	$J_d \leq 1.5 V DC$	
Switching frequency f		
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	fixed cable	
Material		
Housing	PC (Polycarbonate)	
Optical face	PMMA	
Mass	approx. 50 g	
Tightening torque, fastening screws	0.6 Nm	
Cable length Compliance with standards and di	2 m	
ves		
Directive conformity		
EMC Directive 2004/108/EC	EN 60947-5-2:2007	
Standard conformity		
Standards	UL 60947-5-2	
A navey also and cartificates		
Approvals and certificates	al II us Listed, Close & Berner Courses an Estad Damas Or a	
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	
UN/ECE Regulation No. 10 (E1)	Type-approval number: 047350	
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Date of issue: 2016-08-23 224752_eng.xml Release date: 2016-08-23 13:20

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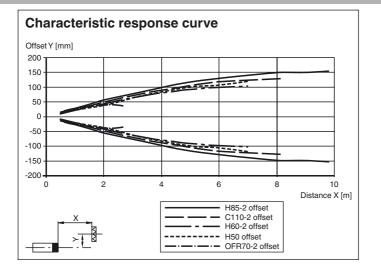
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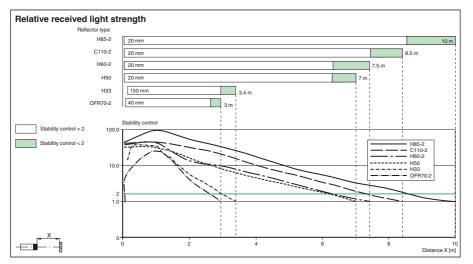
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Curves/Diagrams





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