Dimensions





Model Number

ML100-6-IR/33/102/115

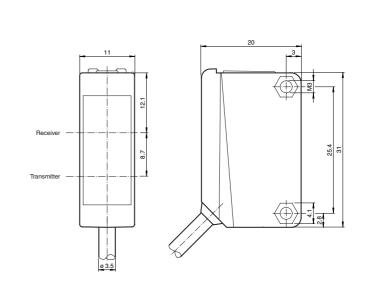
Retroreflective sensor with 3 m fixed cable

Features

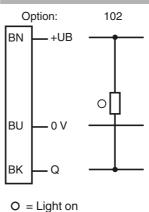
- User-friendliest photoelectric sensor • series for standard applications
- Miniature design ٠
- Not sensitive to ambient light •
- Metal-reinforced fastening holes
- Version with infrared light

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.

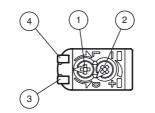


Electrical connection



= Dark on

Indicators/operating means



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

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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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 IRED Light source IRED Light type modulated infrared light Polarization filter no Diameter of the light spot approx. 4 ° Optical face frontal Ambient light limit EN 60947-5-2:2007+A1:2012 Functional safety related parameters MTTF _d MTTF _d 860 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means UED green: power on Function indicator LED green: power on Function indicator LED green: power on Function light sput sensitivity adjustment Control elements sensitivity adjustment Control elements sensitivity adjustment Control elements sensitivity adjustment Control elements sensitivity adjustment <t< th=""><th>Accessories OMH-ML100-01</th></t<>	Accessories OMH-ML100-01	
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Electrical specifications Operating voltage U_B $10 \dots 30 \text{ V DC}$ Ripple max. 10 % No-load supply current I_0 < 20 mA Output The switching type of the sensor is adjustable. The default setting is: light on 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 $\leq 1.5 \text{ V DC}$ Switching frequency f 1000 Hz Response time 0.5 ms	0111140	
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Switching currentmax. 100 mA , resistive loadVoltage drop U_d $\leq 1.5 V DC$ Switching frequencyf1000 HzResponse time0.5 ms	Reflector with screw fixing Other suitable accessories can be foun	
Voltage drop U_d $\leq 1.5 \text{ V DC}$ Switching frequencyf1000 HzResponse time0.5 ms	www.pepperl-fuchs.com	
Switching frequency f 1000 Hz Response time 0.5 ms		
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 3 m		
Compliance with standards and directi- ves		
Directive conformity		
EMC Directive 2004/108/EC EN 60947-5-2:2007		
Standard conformity		
Standards UL 60947-5-2		
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		
UN/ECE Regulation No. 10 (E1) Type-approval number: 047350		

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

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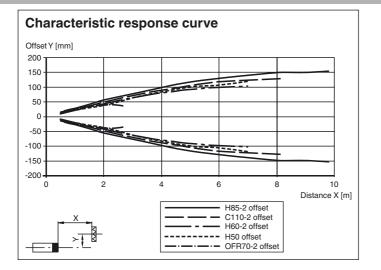
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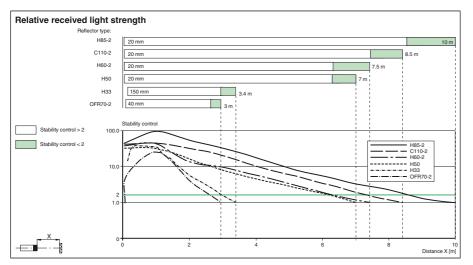
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Curves/Diagrams





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