



 ϵ



Model Number

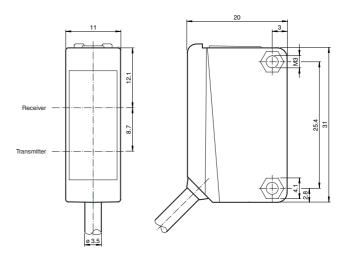
ML100-8-HGU-100-IR/102/115/162

Convergent mode sensor with 2 m fixed cable

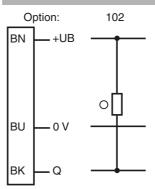
Features

- Miniature design
- Diffuse mode sensor with long, narrow light spot
- Easy to use
- · Full metal thread mounting

Dimensions

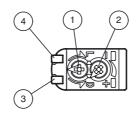


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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

General specifications			
Detection range		7 100 mm	
Adjustment range		30 100 mm	
Reference target		standard white, 100 mm x 100 mm	
Light source		LED	
Light type		modulated infrared light	
Polarization filter		no	
Diameter of the light spot		approx. 7 mm x 50 mm at 100 mm	
Angle of divergence		Emitter: 4 ° vertical ; 25 ° horizontal	
Optical face		frontal	
Ambient light limit		EN 60947-5-2:2007+A1:2012	
Functional safety related paran	neters		
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 when object is detected	
Control elements		Sensing range adjuster	
Control elements		Light-on/dark-on changeover switch	
Electrical specifications			
Operating voltage	U_B	10 30 V DC	
Ripple		max. 10 %	
No-load supply current	I _O	< 20 mA	
Output			
Switching type		The switching type of the sensor is adjustable. The default setting is: light on	
Signal output		1 NPN output, short-circuit protected, reverse polarity protection 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			
Ambient temperature		-30 60 °C (-22 140 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Housing width		11 mm	
Housing height		31 mm	
Housing depth		20 mm	
Degree of protection		IP67	
Connection		2 m fixed cable	
Material			
Housing		PC (Polycarbonate)	
Optical face		PMMA	
Mass		approx. 50 g	
Tightening torque, fastening screws		0.6 Nm	
Cable length		2 m	
Compliance with standards and directives	b		
Directive conformity			
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012	
Standard conformity			
Standards		UL 60947-5-2	

Accessories

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-02

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-F10-ML100

Mounting aid for ML100 series

OMH-10

Mounting aid

OMH-ML100-S1

Mounting bracket

OMH-ML100-08

Mounting aid for ML100 series, Snap-in

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

Approvals and certificates

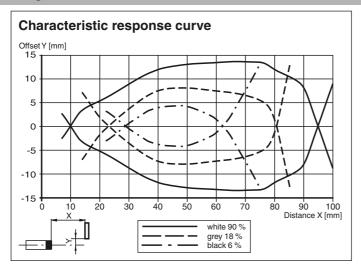
UL approval

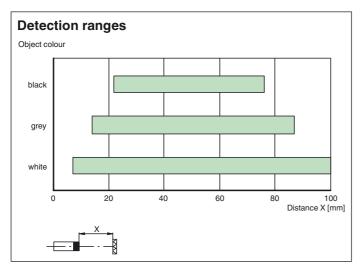
CCC approval

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 / marking not required for products rated ≤36 V

Curves/Diagrams





www.pepperl-fuchs.com