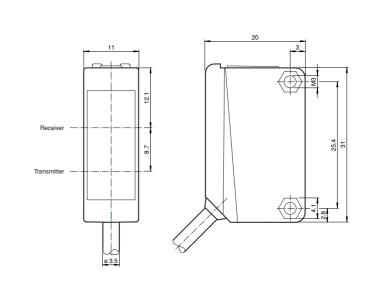
ML100-8-HGU-100-IR/103/115/162

Dimensions



Model Number

ML100-8-HGU-100-IR/103/115/162

Convergent mode sensor

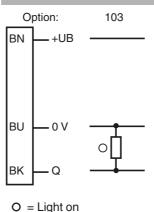
with 2 m fixed cable

Features

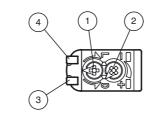
CE

- Miniature design ٠
- Diffuse mode sensor with long, ٠ narrow light spot
- Easy to use •
- Full metal thread mounting •

Electrical connection



Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Technical	data
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Technical data					
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: 3.5 ° vertical ; 30 ° horizontal			
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 when object is detected			
Control elements		Sensing range adjuster			
Control elements		Light-on/dark-on changeover switch			
Electrical specifications					
Operating voltage	UB	10 30 V DC			
Ripple		max. 10 %			
No-load supply current	I ₀	< 20 mA			
Output					
Switching type		The switching type of the sensor is adjustable. The default setting is: light on			
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector			
Switching voltage		max. 30 V DC			
Switching current		max. 100 mA , resistive load			
Voltage drop	Ud	≤ 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					
Directive conformity					
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012			
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			

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

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www.pepperl-fuchs.com

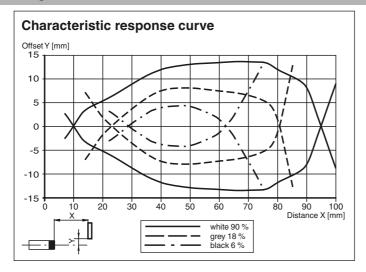
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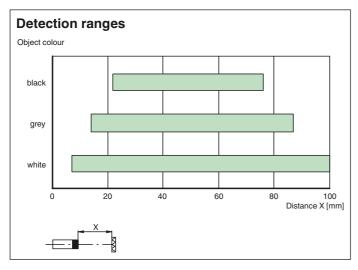
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Curves/Diagrams





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