Convergent mode sensor



CE

Model Number

ML8-8-HGU-30-RT/102/115/162

Convergent mode sensor with 2 m fixed cable

Features

- Diffuse mode sensor with long, nar-٠ row light spot
- Specially designed for detecting criti-٠ cal objects such as PCBs
- Background interference suppression •
- Tamper-proof, no operating controls •
- Plug and Play •
- Not sensitive to ambient light, even • with switched energy saving lamps

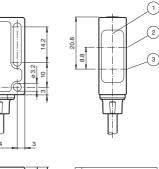
Product information

Small, robust and reliable, the ML8 series of miniature sensors is particularly suitable for non-contact detection of objects in confined spaces. The LED indicator is located behind the lens and provides reliable information on the sensor's operating status. The LED is always visible, even if the sensor is completely embedded. Flexible mounting options and fixed preset detection ranges simplify setup and operation.



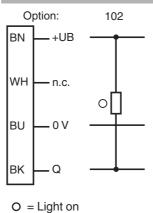
2.6

Dimensions





Electrical connection



= Dark on

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

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Technical data

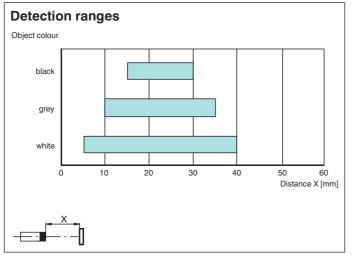
lechnical data		
General specifications		
Detection range		15 30 mm
Reference target		standard black, 100 mm x 100 mm
Light source		LED , 645 nm
Light type		modulated visible red light
Diameter of the light spot		approx. 5 mm x 25 mm at 30 mm
Angle of divergence		Emitter 3° vertical 35 ° horizontal
Ambient light limit		EN 60947-5-2
Functional safety related para	meters	
MTTFd		830 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		2 LEDs yellow, light up in case of detection
Electrical specifications		
Operating voltage	U _B	10 30 V DC , class 2
Ripple	ч	max. 10 %
No-load supply current	I ₀	< 20 mA
Output	.0	
Switching type		light on
Signal output		1 NPN output, short-circuit protected, reverse polarity protected
olgilal output		open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	U _d	≤ 1.5 V DC
Response time		1 ms
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Protection degree		IP65 / IP67
Connection		2 m fixed cable
Material		
Housing		PC (glass-fiber-reinforced Makrolon)
Optical face		PMMA
Mass		approx. 50 g
Compliance with standards an ves	nd directi	-
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007
Protection degree		EN 60529
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Approvals and certificates UL approval

CCC approval

Standards

cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated ≤36 V



EN 50178, UL 508

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Montagekit OMH-ML7-01 Mounting set consisting of bracket OMH-ML-01 sheet OMH-ML7-03, and fastening material

Montagekit OMH-ML7-02 Mounting set consisting of bracket OMH-ML-02 sheet OMH-ML7-03, and fastening material

OMH-ML7-01 Mounting bracket

OMH-ML7-02 Mounting bracket

OMH-ML7-03 Fixing plate

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

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