

CE

Model Number

ML8-8-H-50-RT/59/102/115/162

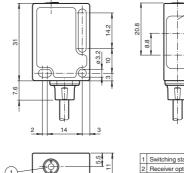
Background suppression sensor with 4-pin, M8 x 1 connector

Features

- Diffuse mode sensor with multiple ٠ light spots
- Specially designed for detecting criti-٠ cal objects such as PCBs
- Detects objects in front of a close • background through precise background suppression
- Precision object detection, almost ir-٠ respective of the color
- 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.

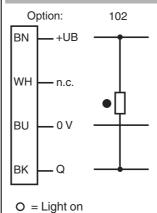


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Electrical connection

Dimensions





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

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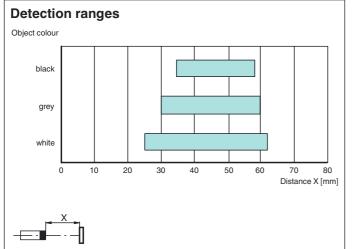


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Technical data
General specifications

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General specifications		
Detection range		20 50 mm
Reference target		standard black, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light , 640 nm
Black/White difference (6 %/90 %)		< 10 %
Diameter of the light spot		2 light spots, 11 mm apart, spotsize 4 mm at a distance of 50 mm
Ambient light limit		EN 60947-5-2
Functional safety related para	meters	
MTTF _d		794 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		5 . 6 .
Operating voltage	U _B	10 30 V DC , class 2
Ripple	- D	max. 10 %
No-load supply current	I ₀	< 15 mA
Output	0	
Switching type		dark 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
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	500 Hz
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		IP67
Connection		2 m fixed cable
Material		
Housing		PC (glass-fiber-reinforced Makrolon)
Optical face		PMMA
Mass		approx. 50 g
Compliance with standards a	nd direct	-
ves		
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007
Protection degree Standards		EN 60529 EN 50178, UL 508
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval		CCC approval / marking not required for products rated ≤36 V



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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