

CE

Model Number

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

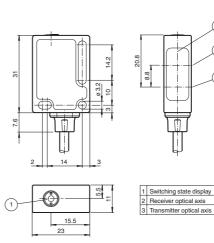
Background suppression sensor with 4-pin, M8 x 1 connector

Features

- Diffuse mode sensor with multiple • light spots
- Specially designed for detecting ٠ critical objects such as PCBs
- Detects objects in front of a close • background through precise background suppression
- Precision object detection, almost ٠ irrespective of the color
- Tamper-proof, no operating controls
- Plug and Play
- Not sensitive to ambient light, even with switched energy saving lamps

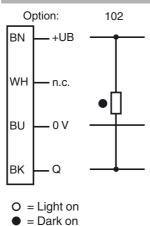
Product information

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.



Electrical connection

Dimensions





(1)

(3

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Technical data		
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 parame	eters	
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		
Operating voltage	UB	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	Ud	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		1 ms
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Housing width		23 mm
Housing height		31 mm
Housing depth		11 mm
Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		PC (glass-fiber-reinforced Makrolon)
Optical face		PMMA

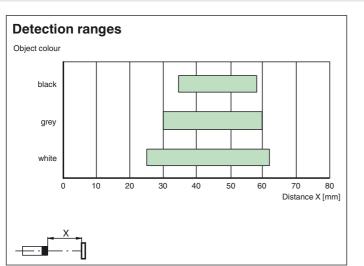
ght up in case of detection lass 2 nort-circuit protected, reverse polarity protected, .. 140 °F) ... 158 °F) einforced Makrolon) approx. 50 g

Approvals and certificates

UL approval CCC approval

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



Accessories

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 aid for ML7 and ML8 series, Mounting bracket

OMH-ML7-02 Mounting aid for ML7 and ML8 series, Mounting bracket

OMH-ML7-03 Mounting aid for ML7 and ML8 series, Fixing plate

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

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