

CE

Model Number

ML8-8-H-30-RT/59/102/115/162

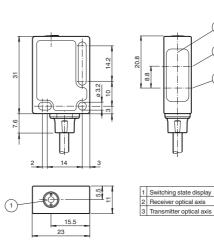
Background suppression sensor with 2 m fixed cable

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

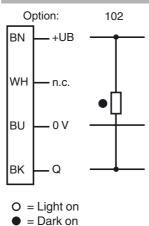
Product information

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

204310_eng.xml Release date: 2019-11-26 15:36 Date of issue: 2019-11-26

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

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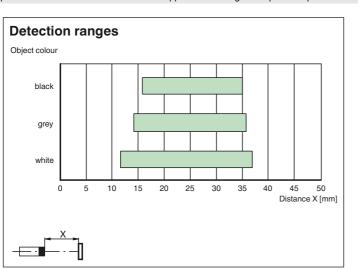
Technical data		
General specifications		
Detection range		15 30 mm
Reference target		standard black
Light source		LED
Light type		modulated visi
Black/White difference (6 %/90	%)	< 10 %
Diameter of the light spot		3 light spots, 12 mm at a distan
Ambient light limit		EN 60947-5-2
Functional safety related para	meters	
MTTF _d		794 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		2 LEDs yellow,
Electrical specifications		
Operating voltage	UB	10 30 V DC
Ripple		max. 10 %
No-load supply current	I ₀	< 15 mA
Output		
Switching type		dark on
Signal output		1 NPN output, sopen collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	U _d	\leq 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
Storage temperature		-40 70 °C (-4
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
Optical face		PMMA
		50

15 30 mm
standard black, 100 mm x 100 mm
LED
modulated visible red light , 640 nm
< 10 %
3 light spots, 12 mm apart (outer spot to outer spot), spotsize 3.5 mm at a distance of 30 mm
EN 60947-5-2
794 a
20 a
0%
2.1 EDo vollow, light up in copp. of detaction
2 LEDs yellow, light up in case of detection
10 30 V DC , class 2
max. 10 %
< 15 mA
dark on
1 NPN output, short-circuit protected, reverse polarity protected, open collector
max. 30 V DC
max. 100 mA
≤ 1.5 V DC
500 Hz
1 ms
EN 60947-5-2
-20 60 °C (-4 140 °F)
-40 70 °C (-40 158 °F)
-+070 0 (-+0100 F)
00
23 mm
31 mm
11 mm
IP67
2 m fixed cable
PC (glass-fiber-reinforced Makrolon)
PMMA
approx. 50 g
cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval / marking not required for products rated ${\leq}36$ V

Approvals and certificates

UL approval CCC approval

Mass



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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