Dimensions



CE

Model Number

ML8-8-H-100-RT/65a/103/115/162

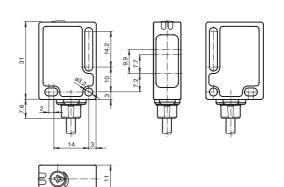
Background suppression sensor with fixed cable

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
- Can be adapted to the application in ٠ question thanks to the adjustable detection range
- Precision object detection, almost irrespective of the color
- Not sensitive to ambient light, even • with switched energy saving lamps

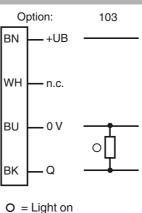
Product information

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.



15.5 23

Electrical connection



= Dark on

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

rechnical data	
General specifications	
Detection range	
Detection range min.	
Detection range max.	
Adjustment range	
Reference target	
Light source	
Light type	
Black/White difference (6 %/90 %)
Diameter of the light spot	
Ambient light limit	
Functional safety related parameter	ete
MTTF _d	
Mission Time (T _M)	
Diagnostic Coverage (DC)	
Indicators/operating means	
Function indicator	
Control elements	
Electrical specifications	
Operating voltage	U
Ripple	
No-load supply current	I ₀
Output	
Switching type	
Signal output	
Switching voltage	
Switching current	
Voltage drop	U
Switching frequency	f
Response time	
Conformity	
Product standard	
Ambient conditions	
Ambient temperature	
Storage temperature	
Mechanical specifications	
Housing width	
Housing height	
Housing depth	
Degree of protection	
Connection	
Material	
Housing	
Optical face	
Mass	

rs

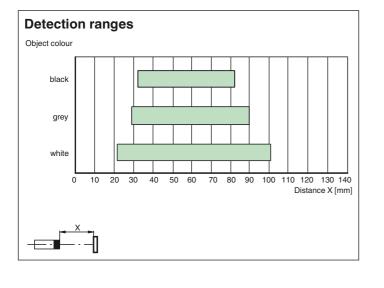
20 ... 100 mm 10 ... 25 mm 25 ... 100 mm 25 ... 100 mm standard white, 100 mm x 100 mm LED modulated visible red light , 640 nm < 20 % 2 light spots, 12 mm apart, spotsize 4 mm at a distance of 50 mm, 25 mm apart, spotsize 10 mm at a distance of 100 mm (outer spot to outer spot) EN 60947-5-2 794 a 20 a 0 % 2 LEDs yellow, light up in case of detection Sensing range adjuster 10 ... 30 V DC , class 2 max. 10 % < 15 mA liaht on 1 PNP output, short-circuit protected, reverse polarity protected, open collector max. 30 V DC max. 100 mA \leq 1.5 V DC 500 Hz 1 ms EN 60947-5-2 -20 ... 60 °C (-4 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) 23 mm 31 mm 11 mm IP67 2 m fixed cable PC (glass-fiber-reinforced Makrolon)

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



PMMA approx. 50 g 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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