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CE

Model Number

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

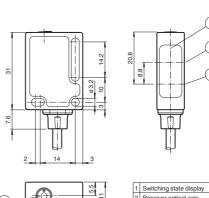
Background suppression sensor with 2 m fixed cable

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.



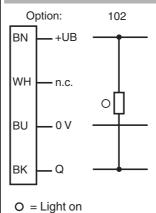
15.5

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Electrical connection

Dimensions





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

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

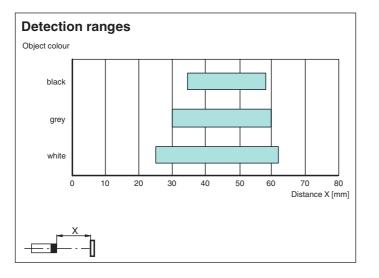
Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data			Accessori	
General specifications			Montagekit	
Detection range		20 50 mm	Mounting se	
Reference target		standard black, 100 mm x 100 mm	ML-01 sheet ning materia	
Light source		LED		
Light type		modulated visible red light, 640 nm		
Black/White difference (6 %/90 %)		< 10 %	Montagekit Mounting se	
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	ML-02 sheet	
Functional safety related para	meters		ning materia	
MTTF _d		794 a	Thing materia	
Mission Time (T _M)		20 a	OMH-ML7-0	
Diagnostic Coverage (DC)		0 %	Mounting bra	
Indicators/operating means			•••••	
Function indicator		2 LEDs yellow, light up in case of detection	OMH-ML7-0	
Electrical specifications			Mounting bra	
Operating voltage	UB	10 30 V DC , class 2	OMH-ML7-0 Fixing plate	
Ripple		max. 10 %		
No-load supply current	I ₀	< 15 mA		
Output			Other suitable	
Switching type		light on	www.pepperl-	
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 an ves	nd direct	i-		
Directive conformity		EMC Directive 2004/108/EC		
Standard conformity				
Product standard		EN 60947-5-2:2007		
Protection degree		EN 60529		
Standards		EN 50178, UL 508		
Approvals and certificates				
		alling Listed Class 2 Power Source, Type 1 englosure		

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



Α	CC	es	SO	ri	es

it OMH-ML7-01 et consisting of bracket OMHet OMH-ML7-03, and fasteal

it OMH-ML7-02 et consisting of bracket OMHet OMH-ML7-03, and fasteal

·01 racket

02 racket

03

le accessories can be found at l-fuchs.com

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