Dimensions



# CE

#### **Model Number**

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

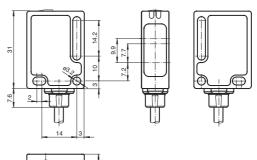
Background suppression sensor with fixed cable

#### **Features**

- Diffuse mode sensor with multiple • light spots
- Specially designed for detecting criti-٠ cal 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

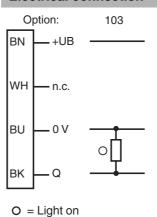
#### **Product information**

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.





### **Electrical connection**



= Dark on

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 4411 fa-info@de.pepperl-fuchs.com



#### Technical data

rechnical	uala		
General specif	ications		
Detection range	ge		20 10
Detection range	ge min.		10 25
Detection range	ge max.		25 10
Adjustment ra	nge		25 10
Reference tar	get		standard
Light source			LED
Light type			modulate
Black/White d	lifference (6 %/90	)%)	<20 %
Diameter of th	ie light spot		2 light sp
			mm, 25 i
Ambient light	limit		(outer sp EN 6094
-		matara	LIN 0094
	ety related para	Imeters	704 a
MTTF <sub>d</sub>	( <b>T</b> )		794 a 20 a
Mission Time			
Diagnostic Co	.,		0 %
Indicators/ope	-		
Function indic			2 LEDs y
Control eleme			Detectio
Electrical spec			
Operating vol	tage	UB	10 30
Ripple			max. 10
No-load supp	ly current	I <sub>0</sub>	< 15 mA
Output			
Switching type	e		light on
Signal output			1 PNP of open col
Switching volt	200		max. 30
Switching cur	-		max. 100
Voltage drop	ient	U <sub>d</sub>	≤ 1.5 V E
Switching free	luency	f	500 Hz
Response tim			1 ms
Ambient cond			1 110
Ambient temp			-20 60
Storage temp			-40 70
Mechanical sp			10 70
Degree of pro			IP67
Connection			2 m fixed
Material			2 111 11200
Housing			PC (glas
Optical face			PMMA
Mass			approx.
	ith standards a	nd directi	
ves			
Directive conf	ormity		EMC Dir
Standard conf	-		

Product standard Degree of protection

Approvals and certificates

Standards

UL approval CCC approval

)0 mm 5 mm )0 mm )0 mm d white, 100 mm x 100 mm ted visible red light , 640 nm pots, 12 mm apart, spotsize 4 mm at a distance of 50 mm apart, spotsize 10 mm at a distance of 100 mm pot to outer spot) 47-5-2 yellow, light up in case of detection on range adjuster VDC, class 2 % output, short-circuit protected, reverse polarity protected, ollector VDC 00 mA DC 60 °C (-4 ... 140 °F) 70 °C (-40 ... 158 °F) d cable ss-fiber-reinforced Makrolon) 50 g rective 2004/108/EC EN 60947-5-2:2007 EN 60529 EN 50178, UL 508 cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated ≤36 V

## Detection ranges Object colour black greywhite 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 Distance X [mm]

#### Montagekit OMH-ML7-01 Mounting set consisting of

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

Accessories

Mounting bracket

#### OMH-ML7-02 Mounting bracket

OMH-ML7-03 Fixing plate

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Pepperl+Fuchs Group USA: +1 3 www.pepperl-fuchs.com fa-info@us.pe

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



2