Convergent mode sensor

ML8-8-HGU-220-RT/103/143





CE

Model Number

ML8-8-HGU-220-RT/103/143

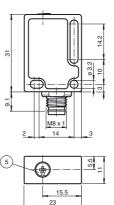
Convergent mode sensor with 4-pin, M8 x 1 connector

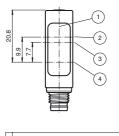
Features

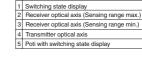
- Miniature design ٠
- Background interference suppression ٠
- Mechanical adjustable detection • range
- Not sensitive to ambient light, even with switched energy saving lamps
- Flexible mounting possibilities due to • slotted hole

Product information

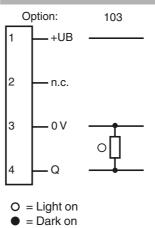
Small, robust and reliable, the ML8 series of miniature sensors is particularly suitable for non-contact detection of objects in confined spaces. The LED indicator is located behind the lens and provides reliable information on the sensor's operating status. The LED is always visible, even if the sensor is completely embedded. Flexible mounting options and fixed preset detection ranges simplify setup and operation.







Electrical connection



Pinout



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

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General specifications		
Detection range		5
Adjustment range		10
Reference target		st
Light source		LI
Light type		m
Diameter of the light spot		a
Angle of divergence		a
Ambient light limit		E
Functional safety related para	meters	
MTTF _d		8
Mission Time (T _M)		20
Diagnostic Coverage (DC)		0
Indicators/operating means		
Function indicator		2
Control elements		S
Electrical specifications		
Operating voltage	UB	10
Ripple		m
No-load supply current	I ₀	<
Output		
Switching type		lig
Signal output		1 0
Switching voltage		m
Switching current		m
Voltage drop	U _d	\leq
Switching frequency	f	50
Response time		\leq
Conformity		
Product standard		Е
Ambient conditions		
Ambient temperature		-3
Storage temperature		-4
Mechanical specifications		
Housing width		1
Housing height		3
Housing depth		2
Degree of protection		IF
Connection		Μ
Material		
Housing		Ρ
Optical face		Ρ
Connector		p
Mass		a

... 220 mm 100 ... 220 mm standard white, 100 mm x 100 mm ED , 645 nm nodulated visible red light approx. 10 mm at detection range 220 mm approx. 2.6 ° EN 60947-5-2 330 a 20 a % LEDs yellow, light up in case of detection Sensing range adjuster 10 ... 30 V DC , class 2 nax. 10 % : 15 mA ight on PNP output, short-circuit protected, reverse polarity protected, pen collector nax. 30 V DC max. 100 mA 1.5 V DC 500 Hz 1 ms EN 60947-5-2 30 ... 60 °C (-22 ... 140 °F) 40 ... 70 °C (-40 ... 158 °F) 1 mm 31 mm 23 mm P65/IP67 VI8 x 1 connector, 4-pin PC (glass-fiber-reinforced Makrolon) PMMA olastic approx. 10 g ≤ 0.4 Nm cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated ≤36 V

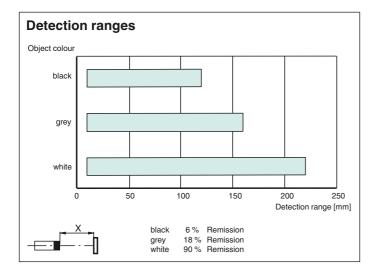
Accessories

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	
V31-WM-2M-PUR Female cordset single-ended, M8, 4-pin, PUR cable	
V31-GM-2M-PUR Female cordset single-ended, M8, 4-pin, PUR cable	
Other suitable accessories can be found at www.pepperl-fuchs.com	

Approvals and certificates

Tightening torque, fastening screws

UL approval CCC approval



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

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