Convergent mode sensor



CE

Model Number

ML8-8-HGU-220-RT/59/103/143

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

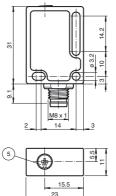
Features

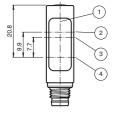
- Miniature design ٠
- Background interference suppression ٠
- Mechanical adjustable detection ran-• ge
- Not sensitive to ambient light, even with switched energy saving lamps
- Flexible mounting possibilities due to • slotted hole

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.

Dimensions

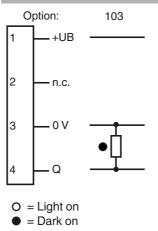








Electrical connection



Pinout



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

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



Technical data

General specificationsDetection range5 220 mmAdjustment range100 220 mmAdjustment rangestandard white, 100 mm x 100 mmLight sourceLED, 645 nmLight typemodulated visible red lightDiameter of the light spotapprox. 10 mm at detection range 220 mmAngle of divergenceapprox. 2.6°Ambient light limitEN 60947-5-2Functional safety related parametersMTTF_d830 aMission Time (Tw)20 aDiagnostic Coverage (DC)0 %Indicators/operating meansEtectrical specificationsFunction indicator2 LEDs yellow, light up in case of detectionControl elementsDetection range adjusterPerating voltageUB10 30 V DC, class 2No-load supply currentI0< 15 mAOutput2 ark onSwitching typedark onSwitching typemax. 30 V DCSwitching frequencyf< 500 HzSwitching frequencyf< 500 HzAmbient temperature< 1 msAmbient temperature< 30 60 °C (-22 140 °F)Storage temperature< 40 70 °C (-40 158 °F)Mechanical specificationsPersonse time< 1 msAmbient algored fieldMB x 1 connector, 4-pinMaterialPorterial specificationsAmbient conditionsAmbient algored field specificationsAmbient algored field specificationsAmbient			
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Switching frequencyf500 HzResponse time≤1 msAmbient conditionsAmbient temperature-30 60 °C (-22 140 °F)Storage temperature-40 70 °C (-40 158 °F)Mechanical specificationsDegree of protectionIP65/IP67ConnectionM8 x 1 connector, 4-pinMaterialHousingPC (glass-fiber-reinforced Makrolon)Optical facePMMAConnectorplastic	Switching current		max. 100 mA
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Optical face PMMA Connector plastic	Material		· · ·
Optical face PMMA Connector plastic	Housing		PC (glass-fiber-reinforced Makrolon)
Connector plastic	•		
Mass approx. 10 g	•		plastic
	Mass		approx. 10 g
Tightening torque, fastening screws ≤ 0.4 Nm	Tightening torque, fastening scree	ws	
Compliance with standards and directi-			

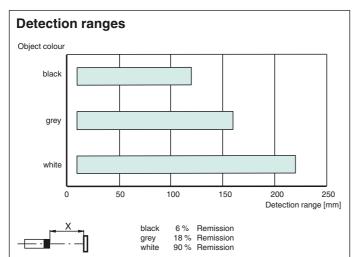
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Directive conformity	EMC Directive 2004/108/EC
Standard conformity	
Product standard	EN 60947-5-2:2007
Degree of protection	EN 60529
Standards	EN 50178, UL 508

Approvals and certificates

UL approval CCC approval

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



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 bracket

OMH-ML7-02 Mounting bracket

OMH-ML7-03 Fixing plate

V31-WM-2M-PUR Female cordset, M8, 4-pin, PUR cable

V31-GM-2M-PUR Female cordset, M8, 4-pin, PUR cable

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

www.pepperl-fuchs.com

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