Dimensions



CE c US

Model Number

ML8-55/25/103/143

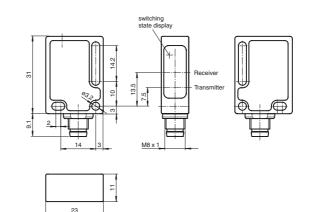
Retroreflective sensor with 4-pin, M8 x 1 connector

Features

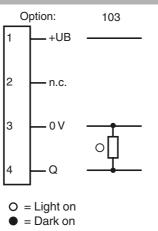
- Cost-optimized series for standard ٠ tasks
- Miniature design ٠
- Tamper-proof, no operating controls •
- Yellow LED indicator behind the front • panel
- Flexible use with versatile mounting • opportunities

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.



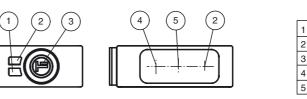
Electrical connection



Pinout



Indicators/operating means



1	Operating display	green
2	Signal display	yellow
3	TEACH-IN button	
4	Emitter	
5	Receiver	

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			•	
Technical data			Accessories	
General specifications			Montagekit OM	
Effective detection range		0 3 m	Mounting set co ML-01 sheet OM fastening materi	
Reflector distance		0.02 3 m		
Threshold detection range		3.5 m		
Reference target		H85-2 reflector		
Light source		LED	Montagekit OM	
Light type		modulated visible red light	Mounting set co ML-02 sheet OM fastening materi	
Polarization filter		yes		
Diameter of the light spot		approx. 180 mm at a distance of 3.5 m		
Angle of divergence		approx. 3 °	lasterning materi	
Ambient light limit		40000 Lux	OMH-ML7-01	
Functional safety related pa	rameters		Mounting aid for	
MTTF _d		2340 a	Mounting bracke	
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %	OMH-ML7-02	
Indicators/operating means			Mounting aid for	
Function indicator		LED yellow: switching state	Mounting bracke	
Electrical specifications			<u> </u>	
Operating voltage	UB	10 30 V DC , class 2	OMH-ML7-03 Mounting aid for	
Ripple		max. 10 %		
No-load supply current	I ₀	< 12 mA	Fixing plate	
Output			V31-WM-2M-PL	
Switching type	ng type light on			
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector	Female cordset PUR cable	
Switching voltage		max. 30 V DC	V31-WM-2M-PV	
Switching current		max. 100 mA		
Voltage drop	U _d	\leq 1.5 V DC	Female cordset	
Response time		1.8 ms	PVC cable	
Conformity			V31-GM-2M-PV	
Product standard		EN 60947-5-2	Female cordset	
Ambient conditions				
Ambient temperature		-20 60 °C (-4 140 °F)	PVC cable	
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications	Female cordset			
Housing width		23 mm	PUR cable	
Housing height		31 mm	1 Off Cable	
Housing depth		11 mm	Other suitable ac www.pepperl-fuch	
Degree of protection		IP67		
Connection		M8 x 1 connector, 4-pin		
Material				
Housing		PC (glass-fiber-reinforced Makrolon)		
Optical face		PMMA		
Connector		plastic		
Mass		approx. 10 g		
Approvals and certificates				
Protection class		II, rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1		
		al II ya Listad. Class 0 Devrer Course. Turse 1 analogura		

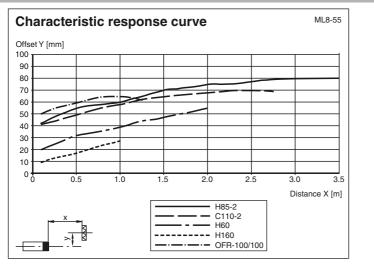
cULus Listed, Class 2 Power Source, Type 1 enclosure

CCC approval / marking not required for products rated ≤36 V

Protection class UL approval

CCC approval

Curves/Diagrams



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

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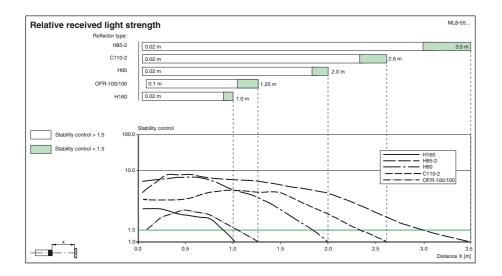
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agekit OMH-ML7-01 ting set consisting of bracket OMH-1 sheet OMH-ML7-03, and ning material agekit OMH-ML7-02 ting set consisting of bracket OMH-2 sheet OMH-ML7-03, and ning material -ML7-01 ting aid for ML7 and ML8 series, ting bracket -ML7-02 ting aid for ML7 and ML8 series, ting bracket -ML7-03 ting aid for ML7 and ML8 series, plate WM-2M-PUR ale cordset single-ended, M8, 4-pin, cable WM-2M-PVC ale cordset single-ended, M8, 4-pin, cable GM-2M-PVC ale cordset single-ended, M8, 4-pin, cable GM-2M-PUR ale cordset single-ended, M8, 4-pin, cable suitable accessories can be found at epperl-fuchs.com



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