

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 ٠ opportunities

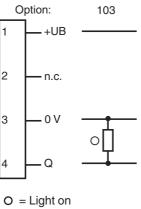
Product information

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.

5 M8

Electrical connection

Dimensions

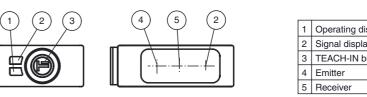


= Dark on

Pinout



Indicators/operating means



Operating display	green
Signal display	yellow
TEACH-IN button	
Emitter	
Receiver	
	Signal display TEACH-IN button Emitter

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

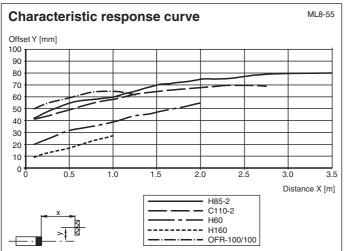
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Technical data			Accessories	
General specifications			Menterekit ONU NI 7.01	
Effective detection range		03m	Montagekit OMH-ML7-01	
Reflector distance		0.02 3 m	Mounting set consisting of bracket OMH	
Threshold detection range		3.5 m	ML-01 sheet OMH-ML7-03, and faste- ning material	
Reference target		H85-2 reflector		
Light source		LED	Montogokit OMH MI 7.02	
Light type		modulated visible red light	Montagekit OMH-ML7-02	
Diameter of the light spot		approx. 180 mm at a distance of 3.5 m	Mounting set consisting of bracket OMH	
Angle of divergence		approx. 3 °	ML-02 sheet OMH-ML7-03, and faste-	
Ambient light limit		40000 Lux	ning material	
Functional safety related par	rameters		OMH-ML7-01	
MTTF _d	amerere	2340 a		
Mission Time (T _M)		20 a	Mounting bracket	
Diagnostic Coverage (DC)		0%	OMH-ML7-02	
Indicators/operating means			Mounting bracket	
Function display		LED yellow: switching state		
		LED yonow. ownorming state	OMH-ML7-03	
Electrical specifications			Fixing plate	
Operating voltage Ripple	UB	10 30 V DC , class 2 max. 10 %		
	1	< 12 mA	V31-WM-2M-PUR	
No-load supply current	Ι _Ο	< 12 IIIA	4-pin, M8 socket, PUR cable	
Output			VOI WIN ON DVO	
Switching type		light on	V31-WM-2M-PVC	
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector	M8, 4-pin socket, PVC cable	
Switching voltage		max. 30 V DC	V31-GM-2M-PVC	
Switching current		max. 100 mA	M8, 4-pin socket, PVC cable	
Voltage drop	U _d	≤ 1.5 V DC		
Response time		1.8 ms	V31-GM-2M-PUR	
Ambient conditions			4-pin, M8 socket, PUR cable	
Ambient temperature		-20 60 °C (-4 140 °F)	Other suitable accessories can be found a	
Storage temperature		-40 75 °C (-40 167 °F)	www.pepperl-fuchs.com	
Mechanical specifications				
Protection degree		IP67		
Connection		M8 x 1 connector, 4-pin		
Material				
Housing		PC (glass-fiber-reinforced Makrolon)		
Optical face		PMMA		
Connector		plastic		
Mass		approx. 10 g		
Compliance with standards ves	and directi	-		
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				
Protection class		II, rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure		
••		CCC approval / marking not required for products rated <36 V		
CCC approval				
Curves/Diagrams				

Curves/Diagrams



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

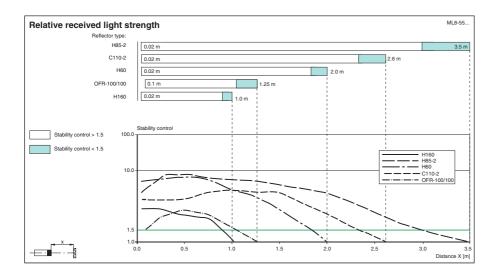
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