

Model Number

ML8-55/103/115b

Retroreflective sensor with 0.3 m fixed cable and M12 connector, 4-

pin

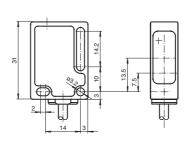
Features

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

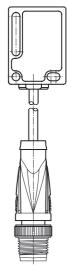
Product information

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.

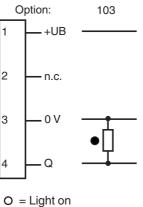
Dimensions







Electrical connection

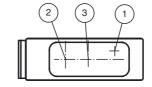


= Dark on

Pinout



Indicators/operating means



1	Switching state	yellow
2	Emitter	
3	Receiver	

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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

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

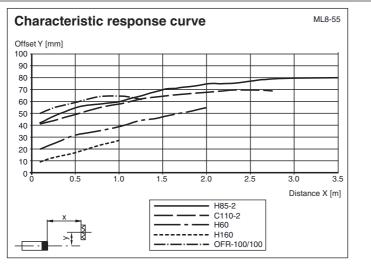
Singapore: +65 6779 9091 n fa-info@sg.pepperl-fuchs.com 

Technical data			Accessories		
General specifications			Montagekit ON		
Effective detection range		0 3 m	Mounting set co		
Reflector distance		0.02 3 m	ML-01 sheet ON		
Threshold detection range		3.5 m	ning material		
Reference target		H85-2 reflector	ning material		
Light source		LED	Montagekit ON		
Light type		modulated visible red light	Mounting set co		
Diameter of the light spot		approx. 180 mm at a distance of 3.5 m	ML-02 sheet ON		
Angle of divergence		approx. 3 °	ning material		
Ambient light limit		40000 Lux	ning material		
Functional safety related paraget	meters		OMH-ML7-01		
MTTF _d		2340 a	Mounting bracke		
Mission Time (T _M)		20 a	-		
Diagnostic Coverage (DC)		0 %	OMH-ML7-02		
Indicators/operating means			Mounting bracke		
Function display		LED yellow: switching state	OMH-ML7-03		
Electrical specifications					
Operating voltage	UB	10 30 V DC , class 2	Fixing plate		
Ripple		max. 10 %	Other suitable ac		
No-load supply current	I ₀	< 12 mA	www.pepperl-fuch		
Output					
Switching type		dark on			
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector			
Switching voltage		max. 30 V DC			
Switching current		max. 100 mA			
Voltage drop	U _d	≤ 1.5 V DC			
Response time		1.8 ms			
Ambient conditions					
Ambient temperature		-20 60 °C (-4 140 °F)			
Storage temperature		-40 75 °C (-40 167 °F)			
Mechanical specifications					
Protection degree		IP67			
Connection		fixed cable 300 mm with M12 x 1 connector , 4-pin			
Material					
Housing		PC (glass-fiber-reinforced Makrolon)			
Optical face		РММА			
Mass		approx. 50 g			
Compliance with standards an ves	d direct	i-			
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		CCC approval / marking not required for products rated ≤36 V			

Curves/Diagrams

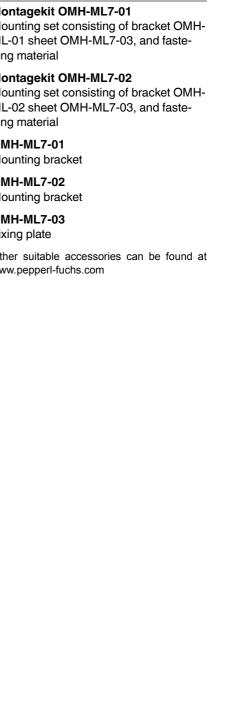
R

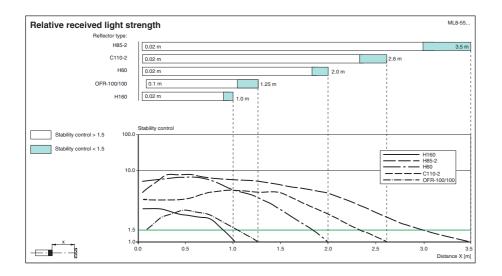
2



lefer	to	"Ge	nera	I Notes	Relating to	Pepperl	+Fuchs	Product	Information'	' .

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





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

