Dimensions



CE C US

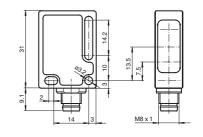
Model Number

ML8-54-G/25/103/143

Retroreflective sensor with 4-pin, M8 x 1 connector

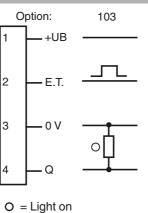
Features

- Cost-optimized sensor for standard ٠ applications
- Miniature design with versatile moun-٠ ting options
- Reliable recognition of reflective ob-٠ jects and clear glass
- Tamper-proof version with no adjust-• ments





Electrical connection



$$\bullet$$
 = Light on \bullet = Dark on

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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eneral specifications		
•		0.05
Effective detection range		00.5 m
Reflector distance Threshold detection range		0.02 0.5 m
0		0.65 m A25 reflector
Reference target		LED
Light source Light type		modulated visible red light
Diameter of the light spot		approx. 25 mm at a distance of 0.5 m
Angle of divergence		approx. 3 °
Ambient light limit		40000 Lux
MTBF		280000 h
Functional safety related parar	neters	
MTTF _d	lieter 3	2340 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		
Function display		LED yellow: switching state
Electrical specifications		
Operating voltage	U _B	10 30 V DC , class 2
Ripple	JB	max. 10 %
No-load supply current	I ₀	< 20 mA
Protection class	•0	II, rated voltage \leq 250 V AC with pollution degree 1-2 according
		to IEC 60664-1
Input		
Function input		Ext. Teach-In input (ET)
Output		
Switching type		light 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		250 μs
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Protection degree		IP65
Connection		M8 x 1 connector, 4-pin
Material		
Housing		PC (glass-fiber-reinforced Makrolon)
Optical face		PMMA
Mass		approx. 10 g
Compliance with standards an ves	d direct	
Standard conformity		
Product standard		EN 60947-5-2:2007
Chandarda		IEC 60947-5-2:2007
Standards		EN 50178, UL 508
Approvals and certificates		
		cULus Listed
UL approval		
UL approval Teach-In		

- Adjust the unit to the reflector.
- Press the Teach-In button as an acknowledgement the green LED will quickly turn off one time.
- Press the Teach-In button until both LEDs green and yellow are blinking in parallel (2Hz). Release the Teach-In button now.
- While the green and yellow LEDs are blinking alternating (2 Hz) the unit is in the internal set up procedure.
- Teach-In successful: Both LEDs green and yellow are on. The unit is ready to use and in switching mode now.
- **Teach-In not successful:** Both LEDs are flashing alternating (4 Hz) for approx. 5 seconds. Afterwards the sensor returns to max. sensitivity setting. Please retry the Teach-In procedure beginning by step 1.

Accessories

OMH-ML7-01 Mounting bracket

OMH-ML7-02 Mounting bracket

OMH-ML7-03 Fixing plate

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

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