Dimensions



Model Number

ML7-8-200/25/102/115

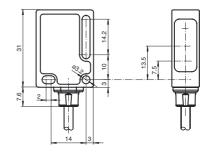
Diffuse mode sensor with 2 m fixed cable

Features

- Miniature design ٠
- Automatic adjustment of sensitivity ٠ via TEACH-IN
- Clearly visible function indicators ٠
- Flashing power on LED in case of • short-circuit
- Not sensitive to ambient light .
- Protected against mutual interference • (no cross-talk)

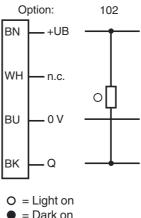
Product information

Small, robust, effective, and reliable - these are the properties of the ML7 sensor series. Due to their small size, number of versions, and two different lens positions, they are particularly suited for installation in tight spaces. The robust design and high quality of Pepperl+Fuchs mean they can also be used under harsh environmental conditions. The efficient technology, switching frequencies up to 1000 Hz, high resistance to ambient light, and 4-in-1 output make the series suitable for non-contact object detection.

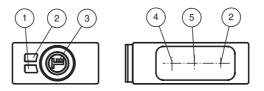




Electrical connection



Indicators/operating means



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

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" www.pepperl-fuchs.com

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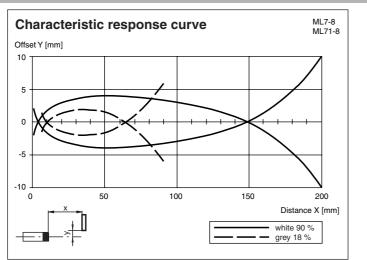
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data		Accessories				
General specifications		Montagekit OMH-ML7-01				
Detection range		20 200 mm	Mounting set consisting of bracket OMH-			
Adjustment range		60 200 mm				
Reference target		standard white, 100 mm x 100 mm	ML-01 sheet OMH-ML7-03, and faste-			
Light source		LED	ning material			
Light type		modulated visible red light	Montagekit OMH-ML7-02			
Diameter of the light spot		approx. 15 mm at a distance of 200 mm	Mounting set consisting of bracket OMH- ML-02 sheet OMH-ML7-03, and faste-			
Angle of divergence		approx. 4.5 °				
Ambient light limit		40000 Lux				
Functional safety related paran	ning material					
MTTF _d		1610 a	OMH-ML7-01			
Mission Time (T _M)		20 a	Mounting bracket			
Diagnostic Coverage (DC)		0 %	incanting bracket			
Indicators/operating means			OMH-ML7-02			
Operation indicator		LED green, flashes in case of short-circuit	Mounting bracket			
Function indicator		LED yellow, lights up with receiver lit	-			
Control elements		Teach-In key	OMH-ML7-03			
Electrical specifications		·	Fixing plate			
Operating voltage	UB	10 30 V DC , class 2	Other suitable accessories can be found at			
Ripple	D	max. 10 %				
No-load supply current	I ₀	< 20 mA	www.pepperl-fuchs.com			
Output						
Switching type		light on				
Signal output		1 NPN output, short-circuit protected, reverse polarity protected,				
		open collector				
Switching voltage		max. 30 V DC				
Switching current		max. 100 mA				
Voltage drop	Ud	≤ 1.5 V DC				
Switching frequency	f	1000 Hz				
Response time		0.5 ms				
Ambient conditions						
Ambient temperature		-20 60 °C (-4 140 °F)				
Storage temperature		-40 75 °C (-40 167 °F)				
Mechanical specifications						
Degree of protection		IP67 / IP69K				
Connection		2 m fixed cable				
Material						
Housing		PC (glass-fiber-reinforced Makrolon)				
Optical face		РММА				
Mass		approx. 50 g				
Compliance with standards and ves	d direct					
Standard conformity						
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007				
Standards		EN 50178, UL 508				
Approvals and certificates						
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 accor-				
		ding to IEC 60664-1				
UL approval		cULus				

UL approval CCC approval

Curves/Diagrams



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

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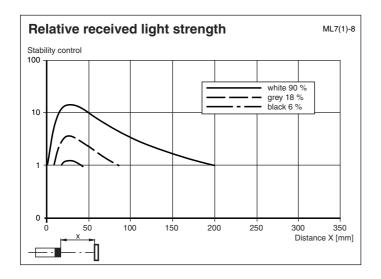
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CCC approval / marking not required for products rated ≤36 V

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TEACH-IN

Connect the sensor to operating voltage, the LED green lights up constantly. The sensor operates at max. sensitivity (delivery status) or with the last teached values.

- · Adjust the unit to the target.
- Press the TEACH-IN button as an acknowledge the green LED will switch off shortly for one time.
- Press the TEACH-IN button until both LED's green and yellow are blinking in parallel (2Hz). Release the TEACH-IN button now.
- While the green and yellow LEDs are blinking alternating (2Hz) 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 (4Hz) for approx. 5 seconds. Afterwards the sensor returns to max. sensitivity setting. Please retry the TEACH-IN procedure beginning by step 1.

