

Model Number

ML7-8-H-140-IR/65a/115/120

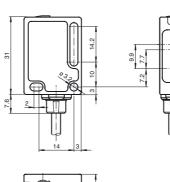
Background suppression sensor with 2 m fixed cable

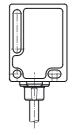
Features

- Miniature design •
- Reliable detection of all surfaces, in-٠ dependent of color and structure
- Minimal black-white difference ٠
- Precision background suppression, • adjustable
- Clearly visible function indicators ٠
- Short circuit and low voltage indicator •
- Certified by ECOLAB •

Product information

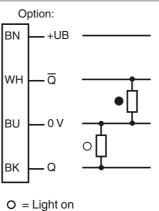
Small, robust, effective, and reliable - these are the properties of the ML7 sensor series. Due to their small size, number of versions, and two different lens positions, they are particularly suited for installation in tight spaces. The robust design and high quality of Pepperl+Fuchs mean they can also 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.



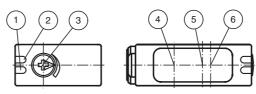




Electrical connection



Indicators/operating means



1	Operating display	green
2	Signal display	yellow
3	Sensing range adjuster	
4	Emitter	
5	Receiver TW min.	
6	Receiver TW max.	

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

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



Technical data			Accessories
General specifications			
Detection range		4 140 mm	Montagekit O Mounting set c ML-01 sheet O ning material
Detection range min.		4 25 mm	
Detection range max.		12 140 mm	
Adjustment range		25 140 mm	
Reference target		standard white, 100 mm x 100 mm	Montogokit O
Light source		IRED	Montagekit O
Light type		modulated infrared light	Mounting set c ML-02 sheet O
Black/White difference (6 %/90	%)	< 6 %	
Diameter of the light spot	. ,	approx. 5 mm at detection range 120 mm	ning material
Functional safety related parar	neters		OMH-ML7-01
MTTF _d		1580 a	
Mission Time (T _M)		20 a	Mounting brack
Diagnostic Coverage (DC)		0%	OMH-ML7-02
Indicators/operating means			Mounting brack
Operation indicator		LED green, statically lit Power on , Undervoltage indicator:	
Operation indicator		Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)	OMH-ML7-03 Fixing plate
Function indicator		LED yellow: lights when object is detected	
Control elements		Detection range adjuster	Other suitable a
Electrical specifications			www.pepperl-fuc
Operating voltage	UB	10 30 V DC , class 2	
Ripple	2	max. 10 %	
No-load supply current	I ₀	< 20 mA	
Output	-		
Switching type		light/dark on	
Signal output		2 PNP, complementary, short-circuit protected, reverse polarity protected	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Switching frequency	f	1 kHz	
Response time		500 μs	
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		PMMA	
Mass		approx. 10 g	
Compliance with standards an ves	d direct		
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates			

kit OMH-ML7-01 set consisting of bracket OMH-

eet OMH-ML7-03, and fasteerial ekit OMH-ML7-02

set consisting of bracket OMHeet OMH-ML7-03, and fasteerial

7-01 bracket

7-02 bracket

table accessories can be found at perl-fuchs.com

Approvals and certificates

Protection class

UL approval CCC approval

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

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II, rated voltage \leq 50 V AC with pollution degree 1-2 according

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

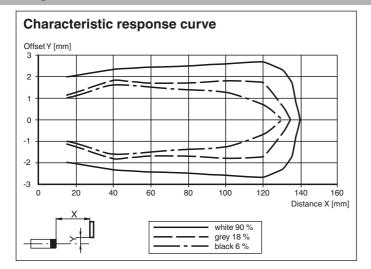
to IEC 60664-1 cULus

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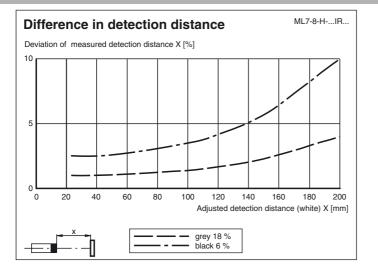


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Curves/Diagrams



Curves/Diagrams





Pepperl+Fuchs Group USA: +1 330 www.pepperl-fuchs.com fa-info@us.pepp

