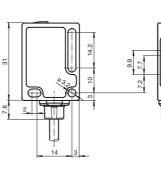
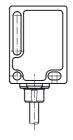
Dimensions











Model Number

ML7-8-H-140-RT/59/65a/115/136

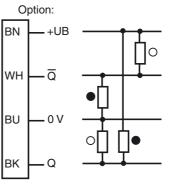
Background suppression sensor with 2 m fixed cable

Features

- Miniature design ٠
- Reliable detection of all surfaces, ٠ independent 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

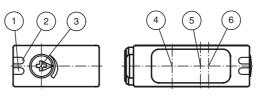
Product information

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.	

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

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Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

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

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1

23 mm IP67 / IP69K

PMMA approx. 10 g

cULus

2 m fixed cable

to IEC 60664-1

PC (glass-fiber-reinforced Makrolon)

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

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

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Housing width Housing height Housing depth

Material Housing

Mass

Optical face

Protection class

UL approval

CCC approval

Approvals and certificates

Degree of protection Connection

Technical data		
General specifications		
Detection range		5 140 mm
Detection range min.		5 25 mm
Detection range max.		13 140 mm
Adjustment range		25 140 mm
Reference target		standard white, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light
Black/White difference (6 %/90)%)	< 10 %
Diameter of the light spot		approx. 5 mm at detection range 120 mm
Functional safety related para	ameters	
MTTF _d		1580 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)
Function indicator		LED yellow: lights when object is detected
Control elements		Sensing range adjuster
Electrical specifications		
Operating voltage	UB	10 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I ₀	< 20 mA
Output		
Switching type		light/dark on
Signal output		2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Switching frequency	f	1 kHz
Response time		500 μs
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Housing width		11 mm
Housing height		31 mm
		<u>aa</u>

essories

tagekit OMH-ML7-01 nting set consisting of bracket OMH-01 sheet OMH-ML7-03, and ning material

tagekit OMH-ML7-02 nting set consisting of bracket OMH-02 sheet OMH-ML7-03, and ning material

H-ML7-01 nting aid for ML7 and ML8 series, nting bracket

I-ML7-02 nting aid for ML7 and ML8 series, nting bracket

H-ML7-03 nting aid for ML7 and ML8 series, ng plate

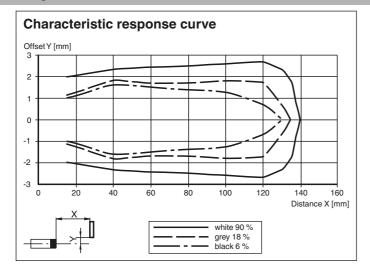
suitable accessories can be found at .pepperl-fuchs.com

> 181901_eng.xml Release date: 2020-01-15 09:07 Date of issue: 2020-01-15

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

Curves/Diagrams



Curves/Diagrams

