

CE VISCO ECOLAB 

## **Model Number**

### ML7-8-H-140-RT/25/65a/115/127

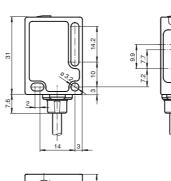
Background suppression sensor with 2 m fixed cable

## **Features**

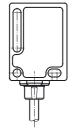
- Miniature design •
- Reliable detection of all surfaces, in-٠ dependent of color and structure
- Minimal black-white difference ٠
- Precision background suppression, • adjustable
- Clearly visible function indicators ٠
- Short circuit and low voltage indicator •
- Certified by ECOLAB •

# **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.

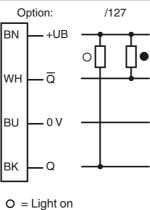






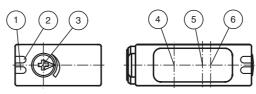


# **Electrical connection**





## 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.	

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

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	Accessories		
	Montagekit OMH-ML7-01 Mounting set consisting of bracket OMH- ML-01 sheet OMH-ML7-03, and faste- ning material		
0 mm x 100 mm	Montagekit OMH-ML7-02		
	Mounting set consisting of bracket OMH- ML-02 sheet OMH-ML7-03, and faste-		
red light			
etection range 120 mm	ning material		
	OMH-ML7-01		
	Mounting bracket		
	5		
	OMH-ML7-02		
	Mounting bracket		
Ily lit Power on , Undervoltage indicator: g (approx. 0.8 Hz) , short-circuit : LED green	OMH-ML7-03		

OMH-ML7-03 Fixing plate

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

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 parame	eters	
MTTF <sub>d</sub>		1580 a
Mission Time (T <sub>M</sub> )		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		Detection range adjuster
Electrical specifications		
Operating voltage	UB	10 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I <sub>0</sub>	< 20 mA
Output		
Switching type		light/dark on
Signal output		2 NPN 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 and ves	directi	
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
Protection class		II, rated voltage ≤ 50 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus
CCC approval		CCC approval / marking not required for products rated ≤36 V
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www.pepperl-fuchs.com

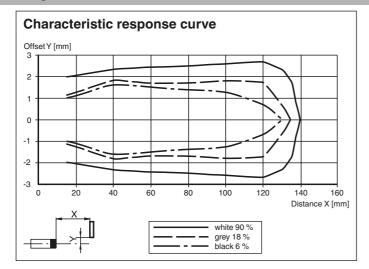
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# **Curves/Diagrams**



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