

CE VISCO ECOLAB

Model Number

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

Background suppression sensor with 2 m fixed cable

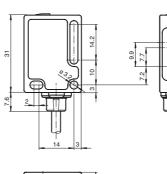
Features

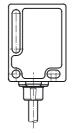
- Miniature design ٠
- Reliable detection of all surfaces, in-٠ dependent of color and structure
- Minimal black-white difference ٠
- Precision background suppression, • adjustable
- Clearly visible function indicators ٠
- Short circuit and low voltage indicator •
- Certified by ECOLAB •

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.

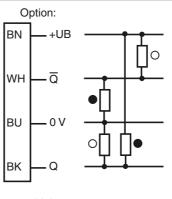






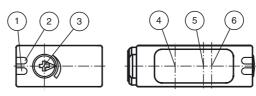


Electrical connection





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.	

Pepperl+Fuchs Group

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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Dimensions

Technical data

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	ters				
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		Detection 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			
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 oves	directi-				
Standard conformity					
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007			
Approvals and certificates					
Protection class		II, rated voltage \leq 50 VAC with pollution degree 1-2 according to IEC 60664-1			
UL approval		cULus			
CCC approval		CCC approval / marking not required for products rated ${\leq}36$ V			

Montagekit OMH-ML7-01 Mounting set consisting of bracket OMH-ML-01 sheet OMH-ML7-03, and fastening material

Montagekit OMH-ML7-02 Mounting set consisting of bracket OMH-ML-02 sheet OMH-ML7-03, and fastening material

OMH-ML7-01 Mounting bracket

OMH-ML7-02 Mounting bracket

OMH-ML7-03 Fixing plate

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

www.pepperl-fuchs.com

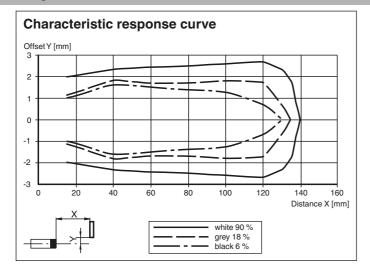
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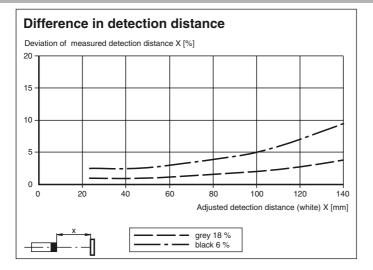
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Curves/Diagrams



Curves/Diagrams





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