

VISCO ECOLAB

Model Number

ML7-8-H-350-IR/59/65a/115/127

Background suppression sensor with 2 m fixed cable

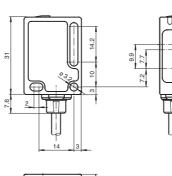
Features

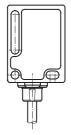
- Miniature design ٠
- Reliable detection of all surfaces, in-٠ dependent of color and structure
- Minimal black-white difference ٠
- Precision background suppression, • adjustable
- Clearly visible function indicators ٠
- Short circuit and low voltage indicator •
- Certified by ECOLAB •

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.

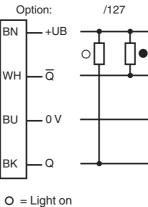
Dimensions





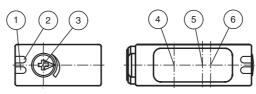


Electrical connection



= Dark on

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

www.pepperl-fuchs.com

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

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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

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



Technical data			Accessor
General specifications			Montageki
Detection range		5 350 mm	Mounting s
Detection range min.		4 25 mm	
Detection range max.		10 350 mm	ML-01 shee
Adjustment range		25 350 mm	ning materi
Reference target		standard white, 100 mm x 100 mm	Montageki
Light source		IRED	Mounting s ML-02 shee ning materi
Light type		modulated infrared light	
Black/White difference (6 %/90	%)	< 17 %	
Diameter of the light spot		approx. 15 mm at detection range 350 mm	
Functional safety related para	neters		OMH-ML7-
MTTF _d		1580 a	Mounting b
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0%	OMH-ML7- Mounting b OMH-ML7- Fixing plate
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	Other suitab www.pepper
Electrical specifications		5,	
Operating voltage	UB	10 30 V DC , class 2	
Ripple	СB	max. 10 %	
No-load supply current	I ₀	< 20 mA	
Output	•0		
Switching type		light/dark on	
Signal output		2 NPN complementary, short-circuit protected, reverse polarity	
Signal output		protected	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Switching frequency	f	250 Hz	
Response time		2 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		PMMA	
Mass		approx. 10 g	
Compliance with standards an ves	d direct		
Standard conformity			

ories

kit OMH-ML7-01 set consisting of bracket OMHeet OMH-ML7-03, and fasterial

kit OMH-ML7-02 set consisting of bracket OMHeet OMH-ML7-03, and fasterial

7-01 bracket

7-02 bracket

7-03 te

able accessories can be found at erl-fuchs.com

Approvals and certificates

Protection class

Standard conformity Product standard

2

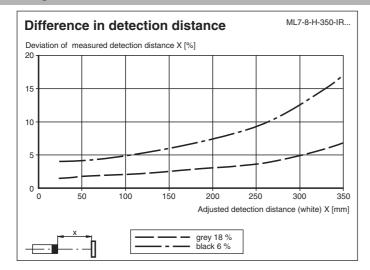
UL approval CCC approval IEC 60947-5-2:2007 II, rated voltage \leq 50 V AC with pollution degree 1-2 according to IEC 60664-1 cULus

EN 60947-5-2:2007

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



Curves/Diagrams



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