

CE **VISC**�

Model Number

MLV41-8-H-350-RT/40a/98/110

Background suppression sensor with 3-pin, M8 x 1 connector

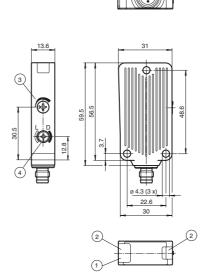
Features

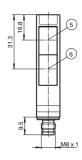
- Rugged series in corrosion-resistant • metal housing
- Reliable detection of all surfaces, ٠ independent of color and structure
- Minimal black-white difference .
- Precision background suppression, • adjustable
- Extremely high switching frequency
- Clear and functional display concept for the operating modes

Product information

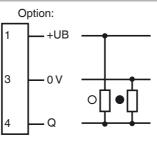
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions. For example, highly visible status LEDs on the front and back, resistance to ambient light, crosstalk protection and universally applicable output stages that permit every possible switching logic and polarity to be realized. The enhanced resistance to ambient light ensures reliable operation even where modern energy-saving lamps with electronic ballasts are in use. The same applies where multiple devices are present, i.e. the use of a number of sensors in the same vicinity causes no problems.







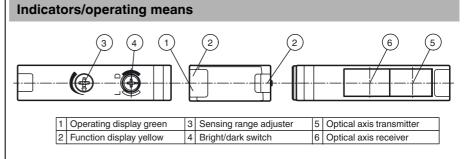
Electrical connection



O = Light on = Dark on

Pinout





(brown) (blue) (black)

BN BU

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com

USA: +1 330 486 0001

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

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com **EPPPERL+FUCHS** 1

Technical data

General specifications		
Detection range		50 350 mm , adjustable
Detection range min.		10 50 mm
Detection range max.		30 350 mm
Adjustment range		50 350 mm
Background suppression		+ 10 % of the upper limit of the detection range
Light source		LED
Light type		modulated visible red light , 660 nm
Black/White difference (6 %/90	%)	< 15 % at 350 mm
Diameter of the light spot		approx. 8 mm at 350 mm sensor range
Angle of divergence		1.5 °
Ambient light limit		40000 Lux
Functional safety related para	meters	
MTTFd		1260 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 gree flashing (approx. 4 Hz)
Function indicator		2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range
Control elements		Sensing range adjuster
Electrical specifications		
Operating voltage	U _B	10 30 V DC
Ripple	- 0	max. 10 %
No-load supply current	I ₀	max. 25 mA
Output	U	
Switching type		light/dark on switchable
Signal output		1 push-pull (4 in 1) output, short-circuit protected, reverse polarity protected
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	U _d	≤ 2.5 V DC
Switching frequency	f	1000 Hz
Response time		0.5 ms
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Housing width		31 mm
Housing height		56.5 mm
Housing depth		13.6 mm
Degree of protection		IP67
Connection		M8 x 1 connector, 3-pin
Material		
Housing		Aluminum , Delta-Seal coated
Optical face		glass pane
Connector		metal
3011100101		50 g
Mass		
Mass Approvals and certificates UL approval		cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

Accessories

OMH-40 Mounting bracket

OMH-09 Mounting bracket for Sensors series MLV41 for M12 rod mounting

V3-WM-2M-PUR

Female cordset single-ended, M8, 3-pin, PUR cable

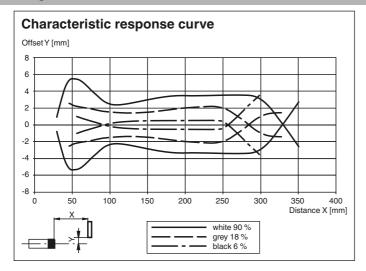
Other suitable accessories can be found at www.pepperl-fuchs.com

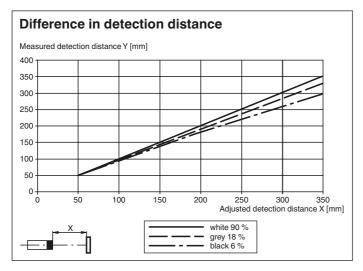
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Curves/Diagrams





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fa-info@us.pepperl-fuchs.com

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