

CE

Rugged series in corrosion-resistant

Reliable detection of all surfaces,

Minimal black-white difference

for the operating modes

Product information

independent of color and structure

Precision background suppression,

Extremely high switching frequency

Clear and functional display concept

The unique and extremely popular design of

the MLV41 series enables it be mounted

Model Number

metal housing

adjustable

Features

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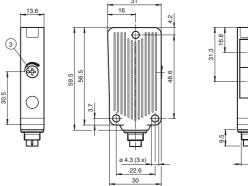
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MLV41-8-H-350-RT/59/70/136

Background suppression sensor

with 5-pin, M9 x 0.5 connector





M9 x 0.5

Electrical connection

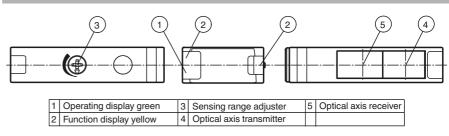
Dimensions

Note: +UB In the case of replacements ю for MLV40, Q 2 the differing pin assignment (EURO standard) 3 0 V must be taken into account 4 Q 5 n.c O = Light on = Dark on

Pinout



Indicators/operating means



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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.

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

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Technical data		Accessories
General specifications		OMH-09
Detection range	50 350 mm , adjustable	Mounting bracket for Sensors series
Detection range min.	10 50 mm	MLV41 for M12 rod mounting
Detection range max.	30 350 mm	MEV IT for MT2 roa mounting
Adjustment range	50 350 mm	OMH-40
Background suppression	+ 10 % of the upper limit of the detection range	Mounting bracket
Light source	LED	
Light type	modulated visible red light, 660 nm	ASK /70 KL.2000MM
Black/White difference (6 %/90 %)	< 15 % at 350 mm	Female cordset, M9, 5-pin, cable
Diameter of the light spot	approx. 8 mm at 350 mm sensor range	
Angle of divergence	1.5 °	ASK /78 KL.2000MM
Ambient light limit	40000 Lux	Female cordset, M9, 5-pin, cable
Functional safety related parameters		Other suitable accessories can be found a
MTTFd	1260 a	
Mission Time (T _M)	20 a	www.pepperl-fuchs.com
Diagnostic Coverage (DC)	0 %	
Indicators/operating means		
Operation indicator	LED green, statically lit Power on , Undervoltage indicator:	
	Green LED, publising (approx. 0.8 Hz) , short-circuit : LED green 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	Cononig range adjuster	
•	10 30 V DC	
	max. 10 %	
Ripple No-load supply current I ₀	max. 25 mA	
	IIIdx. 25 IIIA	
Output		
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	
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	with M9, 5-pin metal connector	
Material		
Housing	Aluminum, Delta-Seal coated	
Optical face	glass pane	
Connector	metal	
Mass	50 g	
Approvals and certificates		
UL approval	cULus Listed 57M3 (Only in association with UL Class 2	
or approva	power supply: Type 1 enclosure)	

CCC approval

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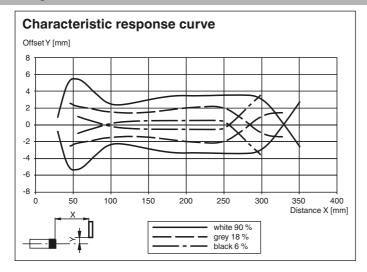
CCC approval / marking not required for products rated ≤36 V

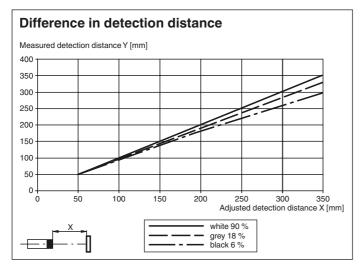
power supply; Type 1 enclosure)

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Curves/Diagrams





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