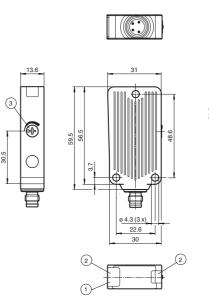
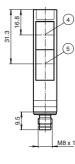


Dimensions





Electrical connection

VISC 🕀

Option: +UB \overline{Q} 2 3 0 V 4 Q O = Light on



Pinout



Indicators/operating means 2

1 Operating display green 3 Sensing range adjuster 5 Optical axis receiver 2 Function display yellow 4 Optical axis transmitter

Model Number

CE

MLV41-8-H-350-IR/59/95/136

Background suppression sensor with 4-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.

Pepperl+Fuchs Group

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

Technical data			Accessories	
General specifications			ОМН-40	
Detection range		50 350 mm , adjustable	Mounting bracket	
Detection range min.		10 50 mm		
Detection range max.		30 350 mm	ОМН-09	
Adjustment range		50 350 mm	Mounting bracket for Sensors series	
Background suppression		+ 10 % of the upper limit of the detection range	MLV41 for M12 rod mounting	
Light source		IRED	m2 v r ror m 2 roa moanang	
Light type		modulated infrared light , 880 nm	V31-WM-2M-PUR Female cordset single-ended, M8, 4-pin, PUR cable	
Black/White difference (6 %/90 %)		< 10 % at 350 mm		
Diameter of the light spot		approx. 18 mm at 350 mm sensor range		
Angle of divergence		3 °		
Ambient light limit		40000 Lux	V31-GM-2M-PUR Female cordset single-ended, M8, 4-pin,	
Functional safety related parameters				
MTTF _d		1260 a	PUR cable	
Mission Time (T _M)		20 a	Other a light and a second second second second second	
Diagnostic Coverage (DC)		0 %	Other suitable accessories can be found at	
Indicators/operating means		www.pepperl-fuchs.com		
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		2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range		
Control elements		Sensing range adjuster		
Electrical specifications				
Operating voltage	UB	10 30 V DC		
Ripple		max. 10 %		
No-load supply current	I ₀	max. 25 mA		
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	Ud	\leq 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, 4-pin		
Material				
Housing		Aluminum , Delta-Seal coated		
Optical face		glass pane		
Connector		metal		
Mass		50 g		
Approvals and certificates			-	

Approvals and o UL approval

CCC approval

Release date: 2019-11-27 14:11 Date of issue: 2019-11-27 183443_eng.xml

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fa-info@us.pepperl-fuchs.com

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cULus Listed 57M3 (Only in association with UL Class 2

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

power supply; Type 1 enclosure)

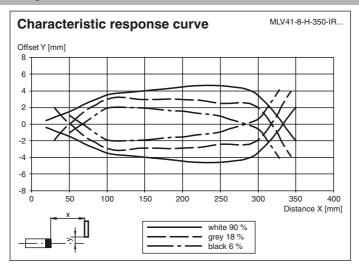
fa-info@de.pepperl-fuchs.com

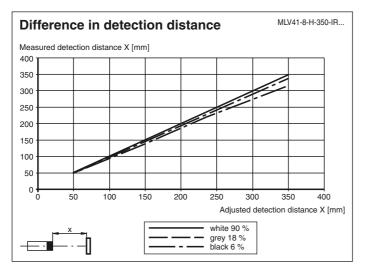
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

EPPERL+FUCHS

2

Curves/Diagrams





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fa-info@us.pepperl-fuchs.com

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

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

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