



CE _c(VL VISC¢

Model Number

MLV41-8-H-350-IR/59/92/136

Background suppression sensor with 4-pin, M12 x 1 connector

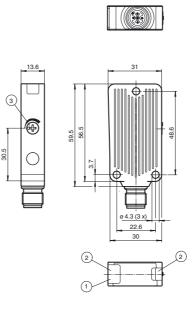
Features

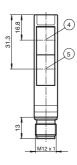
- Rugged series in corrosion-resistant • metal housing
- Reliable detection of all surfaces, ٠ independent of color and structure
- Minimal black-white difference .
- Precision background suppression, • adjustable
- Extremely high switching frequency
- Clear and functional display concept for the operating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

Product information

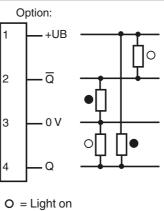
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions. For example, highly visible status LEDs on the front 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.

Dimensions





Electrical connection

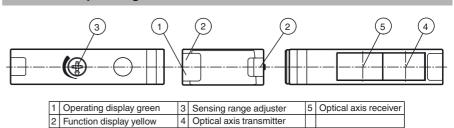


= Dark on

Pinout



Indicators/operating means



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

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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		IRED
Light type		modulated infrared light, 880 nm
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
Functional safety related parameter	ters	
MTTF _d		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 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	U _d	≤ 2.5 V DC
	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		4-pin, M12 x 1 connector
Material		Aluminum Delte Ocel contact
Housing Optical face		Aluminum , Delta-Seal coated glass pane
Connector		metal
Mass		50 g
mass		~~ y
Approvals and certificates		
Protection class		II, rated voltage \leq 50 V AC with pollution degree 1-2 according to IEC 60664-1 , functional insulation acc. to DIN EN 50178

UL approval

CCC approval

Accessories

OMH-40 Mounting bracket

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

V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

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

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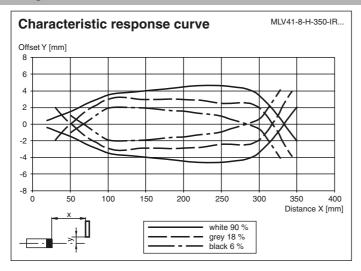
Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

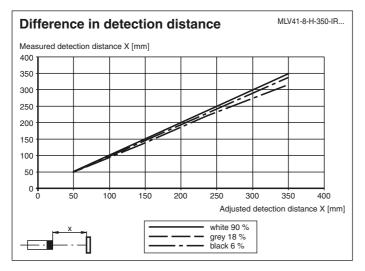
cULus Listed 57M3 (Only in association with UL Class 2

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

power supply; Type 1 enclosure)

Curves/Diagrams





Release date: 2019-11-27 14:11 Date of issue: 2019-11-27 183442_eng.xml

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