

CE **VISC**�

Model Number

MLV41-6/25/95/136

Retroreflective sensor with 4-pin, M8 x 1 connector

Features

- Rugged series in corrosion-resistant • metal housing
- Extremely high switching frequency ٠
- Clear and functional display concept . for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality ٠ Delta-Seal coated

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.

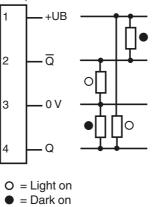


Dimensions

13.6 59.5 56.5 Ħ ø 4.3 (3 x M8 x 1 22.6

Electrical connection

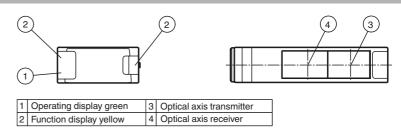
Option:



Pinout



Indicators/operating means



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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Technical data			Accessories	
General specifications				
Effective detection range		0 9.5 m	OMH-09	
Reflector distance		Foil reflector 0.05 3 m Retro-reflector 0.01 9.5 m	Mounting bracket for Sensors series MLV41 for M12 rod mounting	
Threshold detection range		12 m	ОМН-40	
Reference target		OFR-22800/76, H85-2 reflector	Mounting bracket	
Light source		LED	V31-WM-2M-PUR Female cordset single-ended, M8, 4-pin,	
Light type		modulated visible red light , 625 nm		
Polarization filter		no		
Angle deviation		max. ± 1.5 °	PUR cable	
Diameter of the light spot		approx. 300 mm at detection range 8.5 m	V31-GM-2M-PUR	
Angle of divergence		1.5 °	Female cordset single-ended, M8, 4-pin, PUR cable	
Optical face		frontal		
Ambient light limit		20000 Lux		
Functional safety related parameters			Other suitable accessories can be found at	
MTTF _d		940 a	www.pepperl-fuchs.com	
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		LED yellow, lights up when light beam is free, flashes when falling short of the stability control		
Control elements		none		
Electrical specifications				
Operating voltage	UB	10 30 V DC		
Ripple		max. 10 %		
No-load supply current	I ₀	max. 30 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	≤ 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	Ē	
Approvals and certificates				
UL approval		cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)		
CCC approval		CCC approval / marking not required for products rated \leq 36 V	с л	

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

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Curves/Diagrams

