

Model Number

MLV41-6/25/95/136

Retroreflective sensor

with 4-pin, M8 x 1 connector

Features

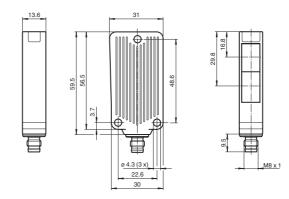
- Rugged series in corrosion-resistant metal housing
- Extremely high switching frequency
- Clear and functional display concept for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality Delta-Seal coated

Product information

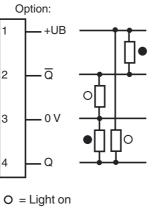
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions grouped together under the VISO+ quality symbol. For 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

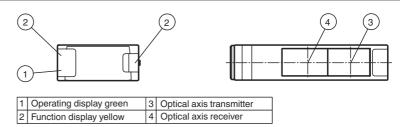


= Dark on

Pinout



Indicators/operating means



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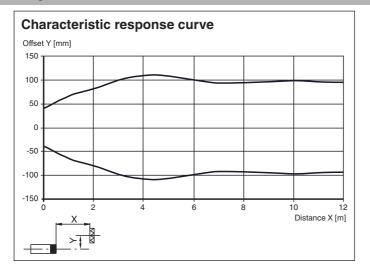


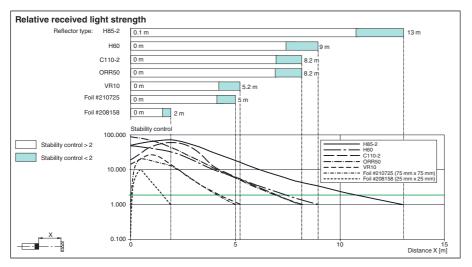
Technical data			Accessories	
General specifications			ОМН-09	
Effective detection range		0 9.5 m		
Reflector distance		Foil reflector 0.05 3 m Retro-reflector 0.01 9.5 m	Mounting bracket for Sensors series MLV41 for M12 rod mounting	
Threshold detection range		12 m	ОМН-40	
Reference target		OFR-22800/76, H85-2 reflector	Mounting bracket	
Light source		LED	V31-WM-2M-PUR	
Light type		modulated visible red light , 625 nm	4-pin, M8 socket, PUR cable	
Angle deviation		max. ± 1.5 °		
Diameter of the light spot		approx. 300 mm at detection range 8.5 m	V31-GM-2M-PUR	
Angle of divergence		1.5 °	4-pin, M8 socket, PUR cable	
Optical face		frontal		
0		20000 Lux	Other suitable accessories can be found at	
Functional safety related parameters			www.pepperl-fuchs.com	
MTTF _d		940 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Operating display		LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)		
Function display		LED yellow, lights up when light beam is free, flashes when fal- ling short of the stability control		
Controls		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	U _d	≤ 2.5 V DC		
Switching frequency	f	1000 Hz		
Response time		0.5 ms		
Ambient conditions				
Ambient temperature		-40 60 °C (-40 140 °F)		
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications				
Protection degree		IP67		
Connection		M8 x 1 connector, 4-pin		
Material				
Housing		aluminum, Delta-Seal coated		
Optical face		glass pane		
Connector		metal		
Mass		50 g		
Compliance with standards a ves	and directi-	•		
Directive conformity				
EMC Directive 2004/108/EC	;	EN 60947-5-2:2007		
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
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 ${\leq}36~\text{V}$		

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Curves/Diagrams





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Subject to modifications without notice

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