

Model Number

MLV41-55/40a/92/102/126b

Retroreflective sensor with 4-pin, M12 x 1 connector

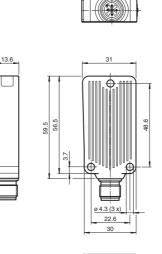
Features

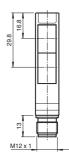
- Rugged series in corrosion-resistant metal housing
- Extremely high switching frequency
- Clear and functional display concept for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality Delta-Seal coated

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.

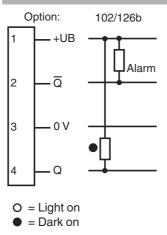
Dimensions







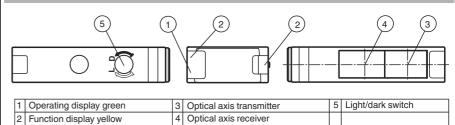
Electrical connection



Pinout



Indicators/operating means



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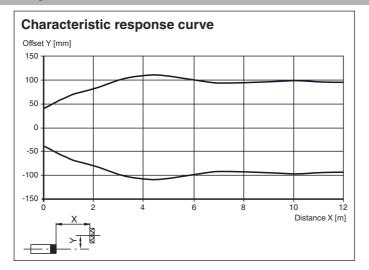
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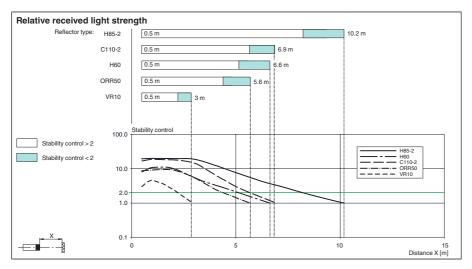


Technical data			Accessories
General specifications			
Effective detection range		0 8 m	OMH-09
Reflector distance		0.1 8 m	Mounting bracket for Sensors series
Threshold detection range		10 m	MLV41 for M12 rod mounting
The should detection range		10 111	ОМН-40
Reference target		H85-2 reflector	
Light source		LED	Mounting bracket
Light type		modulated visible red light , 625 nm	V1-G-2M-PUR
Angle deviation		max. \pm 1.5 $^{\circ}$	Cable socket, M12, 4-pin, PUR cable
Diameter of the light spot		approx. 300 mm at detection range 8.5 m	
Angle of divergence		1.5 °	V1-W-2M-PUR
Optical face		frontal	Cable socket, M12, 4-pin, PUR cable
Ambient light limit		20000 Lux	Other suitable assessmine are be found at
Functional safety related param	neters		Other suitable accessories can be found at
MTTF _d		844 a	www.pepperl-fuchs.com
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		rotary switch for light/dark	
Electrical specifications			
Operating voltage	UB	10 30 V DC	
Ripple	OB	max. 10 %	
No-load supply current	I ₀	max. 30 mA	
Output	'0	11ax. 30 11A	
Pre-fault indication output		1 NPN function reserve output (alarm), short-circuit protected,	
Fie-laur indication output		reverse polarity protected, open collector	
Switching type		light/dark on switchable	
Signal output		1 NPN output, short-circuit protected, reverse polarity protec- ted, open collector	
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		connector M12 x 1, 4-pin	
Material			
Housing		aluminum, Delta-Seal coated	
Optical face		glass pane	
Connector		metal	
Mass		50 g	
Compliance with standards and ves	d 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 ${\leq}36~V$	



Curves/Diagrams





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