

#### CE **VISC**� C

#### **Model Number**

#### MLV41-55-6328

Retroreflective sensor with 4-pin, M12 x 1 connector

#### **Features**

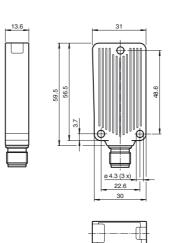
- Rugged series in corrosion-resistant • metal housing
- Extremely high switching frequency ٠
- Clear and functional display concept . for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality • **Delta-Seal coated**

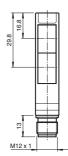
## **Product information**

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.



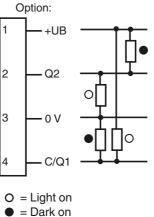
Dimensions







### **Electrical connection**

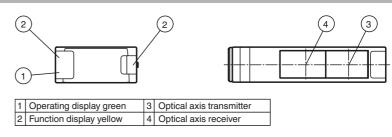




# **Pinout**



# Indicators/operating means



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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



Technical data			Accessories
General specifications			ОМН-09
Effective detection range		0 8 m Detection range is preset to 0 0.5 m	
Reflector distance		0.1 8 m	Mounting bracket for Sensors series
Threshold detection range		10 m	MLV41 for M12 rod mounting
Reference target		H50 reflector	ОМН-40
Light source		LED	Mounting bracket
•			Other witchle and series and he found
Light type		modulated visible red light , 625 nm	Other suitable accessories can be found
Polarization filter		yes	www.pepperl-fuchs.com
Angle deviation		max. ± 1.5 °	
Diameter of the light spot		approx. 300 mm at detection range 8.5 m	
Angle of divergence		1.5 °	
Optical face		frontal	
Ambient light limit		20000 Lux	
Functional safety related paran	neters		
MTTF <sub>d</sub>		844 a	
Mission Time (T <sub>M</sub> )		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Operation indicator		LED green, statically lit Power on , Undervoltage indicator:	
Operation indicator		Green LED, pulsing (approx. 0.8 Hz), short-circuit : LED green flashing (approx. 4 Hz), IO link communication: green LED goes out briefly (1 Hz)	
Function indicator		LED yellow, lights up when light beam is free, flashes when fal- ling 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 <sub>0</sub>	max. 30 mA	
	10	11dX. 30 11/4	
Interface			
Interface type		IO-Link	
Protocol		IO-Link V1.0	
Mode		COM 2 (38.4 kBaud)	
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 <sub>d</sub>	≤ 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)	
		-+073 0(-+0107 1)	
Mechanical specifications			
Degree of protection		IP67	
Connection		4-pin, M12 x 1 connector	
Material			
Housing		aluminum , Delta-Seal coated	
Optical face		glass pane	
Connector		metal	
Mass		50 g	
Compliance with standards and ves	d direct	-	
Directive conformity			
EMC Directive 2004/108/EC		EN 60947-5-2:2007	
Standard conformity		LN 00347-3-2.2007	
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	

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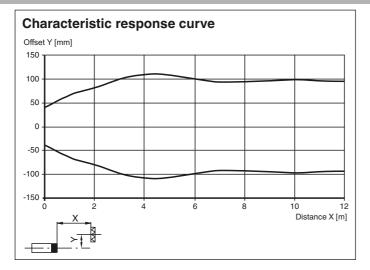
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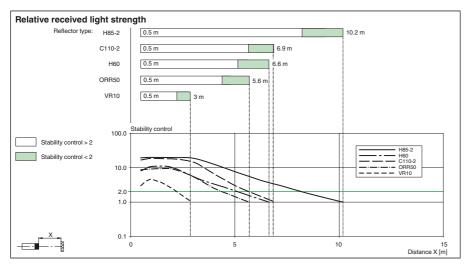
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# **Curves/Diagrams**





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