

Model Number

MLV41-6/25/92/136

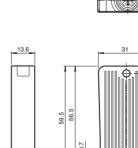
Retroreflective sensor with 4-pin, M12 x 1 connector

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

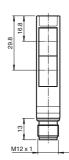
Product information

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. 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.



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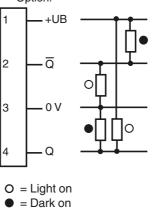
22.6



Electrical connection

Option:

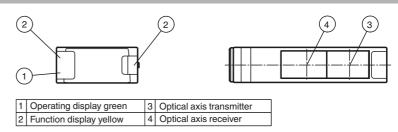
Dimensions



Pinout



Indicators/operating means



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

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Technical data		
General specifications		
Effective detection range		0 9.5 m
Reflector distance		Foil reflector 0.05 3 m Retro-reflector 0.01 9.5 m
Threshold detection range		12 m
Reference target		OFR-22800/76, H85-2 reflector
Light source		LED
Light type		modulated visible red light , 625 nm
Polarization filter		no
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 parame	eters	
MTTF _d		940 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		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
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		
Housing		Aluminum , Delta-Seal coated
Optical face		glass pane
Connector		metal
Mass		50 g
Compliance with standards and directives		
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 / marking not required for products rated ≤36 V

OMH-09

Mounting bracket for Sensors series MLV41 for M12 rod mounting

OMH-40 Mounting bracket

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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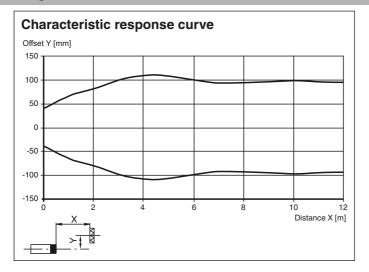
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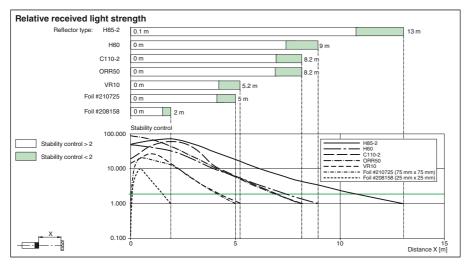
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Curves/Diagrams





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