









Model Number

MLV41-55/25/115/136

Retroreflective sensor with 2 m fixed cable

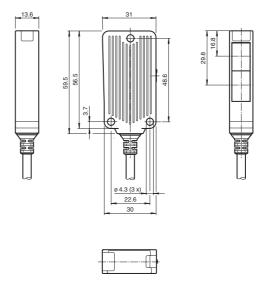
Features

- 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

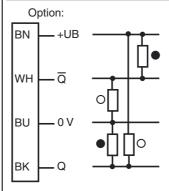
Product information

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

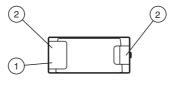


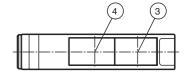
Electrical connection



- O = Light on
- = Dark on

Indicators/operating means





1	Operating display green	3	Optical axis transmitter
2	Function display yellow	4	Optical axis receiver

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Technical data		
General specifications		
Effective detection range		0 8 m
Reflector distance		0.1 8 m
Threshold detection range		10 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light , 625 nm
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 par	ameters	
MTTF _d		844 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	U_B	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		2 m fixed cable
Material		
Housing		aluminum , Delta-Seal coated
Optical face		glass pane
Mass		100 g
Compliance with standards a ves	and direct	i-
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
The first of the second		power supply; Type 1 enclosure)
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Accessories

OMH-09

Mounting bracket for Sensors series MLV41 for M12 rod mounting

OMH-40

Mounting bracket

Other suitable accessories can be found at www.pepperl-fuchs.com

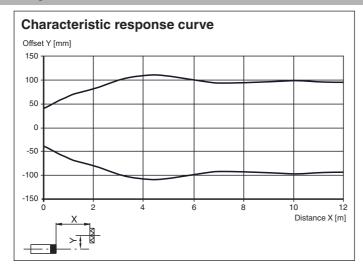
CCC approval / marking not required for products rated \leq 36 V

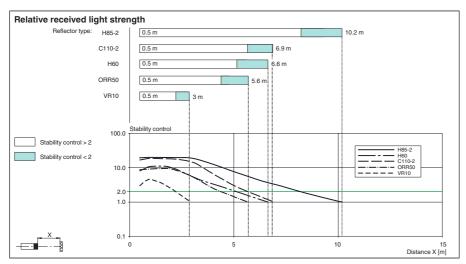
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CCC approval

Curves/Diagrams





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