Dimensions





C∈ cŲL)us **VISC**⇔

EAC

Model Number

MLV41-55/25/115/136

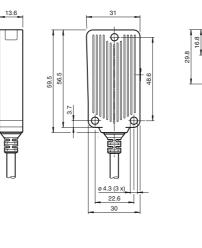
Retroreflective sensor with 2 m fixed cable

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

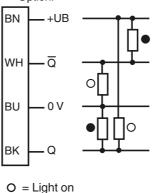
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions. For example, highly visible status LEDs on the front 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.





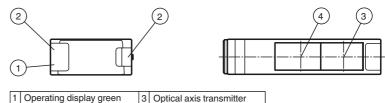
Electrical connection

Option:



$$\bullet$$
 = Light on \bullet = Dark on

Indicators/operating means



 1
 Operating display green
 3
 Optical axis transmitter

 2
 Function display yellow
 4
 Optical axis receiver

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

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 G

Pepperl+Fuchs Group USA: +1 www.pepperl-fuchs.com fa-info@us.p

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS 1

Technical data			Accessories	
General specifications			ОМН-09	
Effective detection range		0 8 m		
Reflector distance		0.1 8 m	Mounting bracket for Sensors series	
Threshold detection range		10 m	MLV41 for M12 rod mounting	
Reference target		H85-2 reflector	OMH-40	
Light source		LED	Mounting bracket	
Light type		modulated visible red light , 625 nm	Other suitable accessories can be found a	
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 par	ameters			
MTTF _d		844 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		
Function indicator		flashing (approx. 4 Hz) 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	чB	max. 10 %		
No-load supply current	l _o	max. 30 mA		
Output	.0			
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		
Conformity				
Product standard		EN 60947-5-2		
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		I9.6 mm		
Connection		2 m fixed cable		
Material				
Housing		Aluminum , Delta-Seal coated		
Optical face		glass pane		
Mass		100 g		
Approvals and certificates				
EAC conformity		TR CU 020/2011		
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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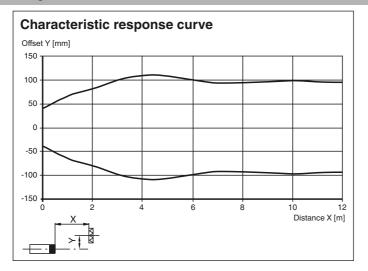
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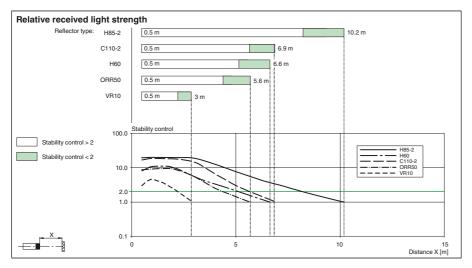
Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

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

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Curves/Diagrams





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