









Model Number

MLV41-6/25/115/136

Retroreflective sensor with 2 m fixed cable

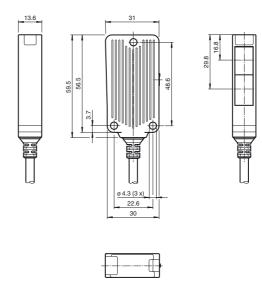
Features

- 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

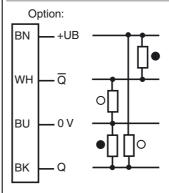
Product information

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, protection and 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

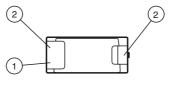


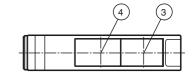
Electrical connection



- O = Light on
- = Dark on

Indicators/operating means





		3	Optical axis transmitter
2	Function display yellow	4	Optical axis receiver

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. \pm 1.5 $^{\circ}$
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 para	meters	
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 gree 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	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 proceeds 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		10 70 0 (10 107 1)
Housing width		31 mm
Housing width Housing height		56.5 mm
Housing depth		13.6 mm
Degree of protection		IP67
Connection		2 m fixed cable
		Z III IIAGU CADIC
Material		Aluminum Dolto Sool coated
Housing Optical face		Aluminum , Delta-Seal coated
Optical face		glass pane
Mass		100 g
Approvals and certificates		
UL approval		cULus Listed 57M3 (Only in association with UL Class 2
ο Ε αρριοναί		nower supply: Type 1 enclosure)

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



FPEPPERL+FUCHS

CCC approval

power supply; Type 1 enclosure)

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

Curves/Diagrams

