Retroreflective sensor

Dimensions



CE

Rugged series in corrosion-resistant

Extremely high switching frequency

Clear and functional display concept

Resistant against noise: reliable

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,

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

and

universally

protection

same vicinity causes no problems.

operation under all conditions Aluminum housing with high quality

Model Number MLV41-6/25/70/136

Features

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crosstalk

Retroreflective sensor

metal housing

with 5-pin, M9 x 0.5 connector

for the operating modes

Delta-Seal coated

Product information



13.6 59.5 56.5 ø 4.3 (3 x M9 x 0.5 22.6

Electrical connection



Pinout



Indicators/operating means



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

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Technical data		Accessories
General specifications		
Effective detection range	0 9.5 m	OMH-09
Reflector distance	Foil reflector 0.05 3 m Retro-reflector 0.01 9.5 m	Mounting bracket for Sensors series MLV41 for M12 rod mounting
Threshold detection range	12 m	ОМН-40
Reference target	OFR-22800/76, H85-2 reflector	Mounting bracket
Light source	LED	ASK /70 KL.2000MM
Light type	modulated visible red light , 625 nm	
Polarization filter	no	Female cordset, M9, 5-pin, cable
Angle deviation	max. ± 1.5 °	ASK /78 KL.2000MM
Diameter of the light spot	approx. 300 mm at detection range 8.5 m	Female cordset, M9, 5-pin, cable
Angle of divergence	1.5 °	
Optical face	frontal	Other suitable accessories can be found at
Ambient light limit	20000 Lux	www.pepperl-fuchs.com
Functional safety related parameters		
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 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 Switching frequency f	≤ 2.5 V DC	
	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	IP67	
Connection	with M9, 5-pin metal connector	
Material		
Housing	Aluminum, Delta-Seal coated	
Optical face	glass pane	
Connector	metal	
Mass	50 g	Ē
Approvals and certificates		
UL approval	cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)	a Darenter
CCC approval	CCC approval / marking not required for products rated ≤36 V	

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Curves/Diagrams





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