Retroreflective sensor

Dimensions



CE US



Model Number

MLV41-6/25/82a/95/103

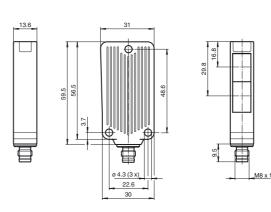
Retroreflective sensor with 4-pin, M8 x 1 connector

Features

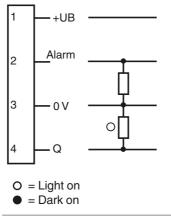
- Rugged series in corrosion-resistant • metal housing
- Extremely high switching frequency ٠
- Clear and functional display concept . for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality ٠ **Delta-Seal coated**

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.



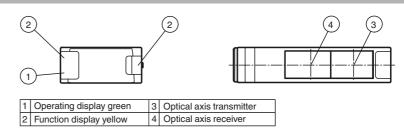
Electrical connection



Pinout



Indicators/operating means



Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com **EPPPERL+FUCHS** 1

Technical data		
eneral specifications		0.05
Effective detection range Reflector distance		0 9.5 m Foil reflector 0.05 3 m
tenector distance		Retro-reflector 0.01 9.5 m
reshold detection range		12 m
ference target		OFR-22800/76, H85-2 reflector
ght source		LED
ight 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
ingle of divergence		1.5 °
Optical face		frontal
mbient light limit		20000 Lux
nctional safety related para	ineters	940 a
ΛΤΤF _d Λission Time (T _M)		940 a 20 a
liagnostic Coverage (DC)		0%
licators/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
ectrical specifications		
perating voltage	UB	10 30 V DC
ipple		max. 10 %
o-load supply current	I ₀	max. 30 mA
put		
re-fault indication output		1 PNP function reserve output (alarm), short-circuit protected, protected from reverse polarity, open collector
Signal output Switching voltage		1 PNP output, short-circuit protected, reverse polarity protected open collector max. 30 V DC
witching current		max. 30 v DC max. 100 mA
oltage drop	U _d	≤ 2.5 V DC
witching frequency	f	1000 Hz
esponse time	•	0.5 ms
nformity		
Product standard		EN 60947-5-2
bient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
chanical specifications		
lousing width		31 mm
ousing height		56.5 mm
Housing depth		13.6 mm
Degree of protection		IP67
Connection		M8 x 1 connector, 4-pin
<i>M</i> aterial		
Housing		Aluminum, Delta-Seal coated
Optical face		glass pane
Connector		metal
Aass		50 g
nnrovale and contificate		
pprovals and certificates		d II us Listed 57M3 (Only in accognition with LIL Class 0
JL 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

ories

g bracket for Sensors series or M12 rod mounting

g bracket

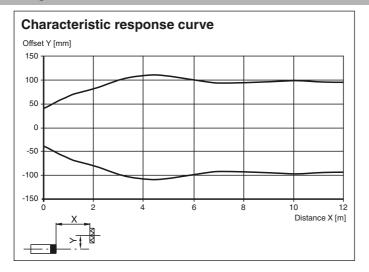
I-PUR cordset, M12, 4-pin, PUR cable

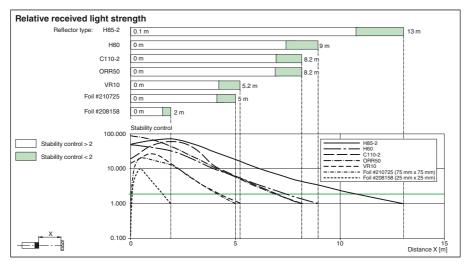
M-PUR cordset, M12, 4-pin, PUR cable

table accessories can be found at perl-fuchs.com

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Curves/Diagrams





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