CE

Features

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crosstalk

Model Number

Retroreflective sensor

metal housing

MLV41-55/40a/82b/92/103

with 4-pin, M12 x 1 connector

for the operating modes

Delta-Seal coated

Product information

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

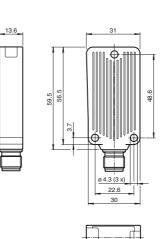
and

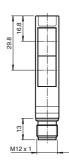
protection

same vicinity causes no problems.

operation under all conditions Aluminum housing with high quality **Dimensions**

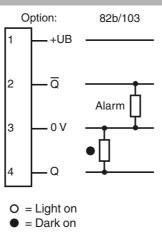






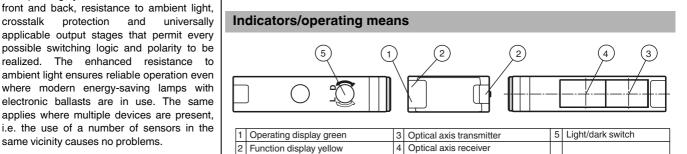
Electrical connection

VISC�



Pinout





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

Pepperl+Fuchs Group www.pepperl-fuchs.com

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

Technical data		Accessories
General specifications	0.0	ОМН-09
Effective detection range Reflector distance	08m 0.18m	Mounting bracket for Sensors series
Threshold detection range	10 m	MLV41 for M12 rod mounting
Theshold detection range	10111	ОМН-40
Reference target	H85-2 reflector	
Light source	LED	Mounting bracket
Light type	modulated visible red light , 625 nm	V1-G-2M-PUR
Polarization filter	yes	Female cordset, M12, 4-pin, PUR cable
Angle deviation	max. ± 1.5 °	
Diameter of the light spot	approx. 300 mm at detection range 8.5 m	V1-W-2M-PUR
Angle of divergence	1.5 °	Female cordset, M12, 4-pin, PUR cable
Optical face	frontal	Other suitable accessories can be found at
Ambient light limit	20000 Lux	www.pepperl-fuchs.com
Functional safety related parame		
MTTF _d	844 a 20 a	
Mission Time (T _M)	0%	
Diagnostic Coverage (DC)	0 %	
Indicators/operating means Operation indicator	LED green, statically lit Power on , Undervoltage indicator:	
Operation indicator	Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)	1
Function indicator	LED yellow, lights up when light beam is free, flashes when falling short of the stability control	
Control elements	rotary switch for light/dark	
Electrical specifications		
Operating voltage	U _B 10 30 V DC	
Ripple	max. 10 %	
No-load supply current	l ₀ max. 30 mA	
Output		
Pre-fault indication output	1 PNP function reserve output (alarm), short-circuit protected, protected from reverse polarity, open collector	
Switching type	light/dark on switchable	
Signal output	1 PNP output, short-circuit protected, reverse polarity protecte open collector	d,
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	_
Voltage drop	$U_d \leq 2.5 \text{ V DC}$	
Switching frequency	f 1000 Hz	
Response time	0.5 ms	
Conformity	EN 60947-5-2	
Product standard	EN 60947-5-2	
Ambient conditions		
Ambient temperature Storage temperature	-40 60 °C (-40 140 °F) -40 75 °C (-40 167 °F)	
	-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	4-pin, M12 x 1 connector	
Material	· • • · · · · · · · · · · · · · · · · ·	
Housing	Aluminum , Delta-Seal coated	
Optical face	glass pane	_
Connector	metal	
Mass	50 g	
Approvals and certificates		
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 V	

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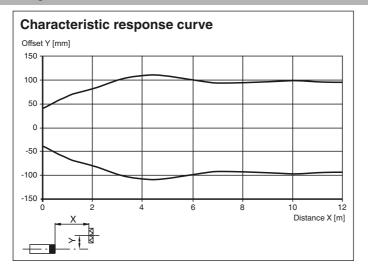
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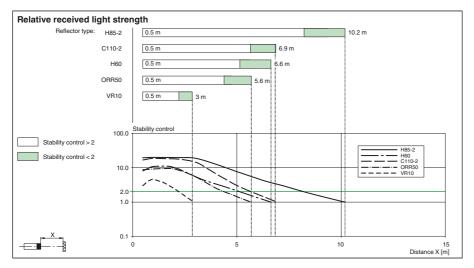
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EPPPERL+FUCHS

Curves/Diagrams





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