VISC‡ @ 10-Link

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Model Number MLV41-6-IO/92/136

Features

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Retroreflective sensor

metal housing

process data

with 4-pin, M12 x 1 connector

Rugged series in corrosion-resistant

Extremely high switching frequency

Clear and functional display concept

Resistant against noise: reliable

Aluminum housing with high quality

operation under all conditions

IO-link interface for service and

for the operating modes

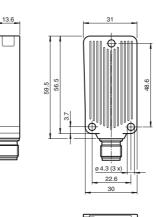
Delta-Seal coated

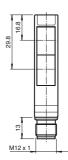
Product information

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Dimensions



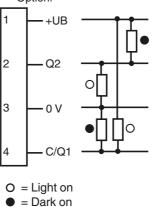






Electrical connection

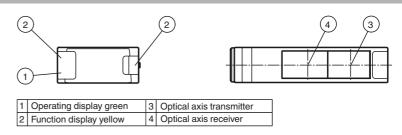
Option:







Indicators/operating means





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 universally crosstalk 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.

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Pepperl+Fuchs Group

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" www.pepperl-fuchs.com

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

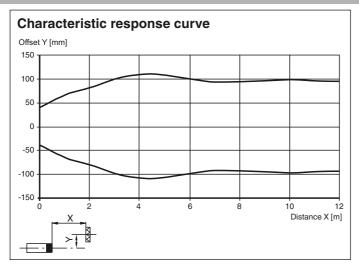
Technical data			Accessories
General specifications			
•		0 9.5 m	ОМН-09
Effective detection range Reflector distance		6 9.5 m Foil reflector 0.05 3 m	Mounting bracket for Sensors series
Reflector distance		Retro-reflector 0.01 9.5 m	MLV41 for M12 rod mounting
Threshold detection range		12 m	OMH-40 Mounting brookst
Reference target		OFR-22800/76, H85-2 reflector	Mounting bracket
Light source		LED	IO-Link-Master02-USB IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
Light 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	
Angle of divergence		1.5 °	IO-Link-Master-USB DTM
Optical face		frontal	Communication DTM for use of IO-Link-
Ambient light limit		20000 Lux	Master
Functional safety related para	meters		
MTTFd		940 a	IODD Interpreter DTM Software for the integration of IODDs in a frame application (e. g. PACTware)
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			DAGT
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) , IO link communication: green LED goes out briefly (1 Hz)	PACTware 4.1 FDT Framework
Function indicator		LED yellow, lights up when light beam is free, flashes when falling short of the stability control	MLV41-6 IODD IODD for communication with MLV41-6- IO-Link sensors
Control elements		none	
Electrical specifications			Other a light second second by the family
Operating voltage	U _B	10 30 V DC	Other suitable accessories can be found a
Ripple	- D	max. 10 %	www.pepperl-fuchs.com
No-load supply current	I ₀	max. 30 mA	
Interface	0		
Interface type		IO-Link	
Protocol		IO-Link V1.0	
Mode		COM 2 (38.4 kBaud)	
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	≤ 2.5 V DC	
Switching frequency	f	1000 Hz	
Response time		0.5 ms	
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		4-pin, M12 x 1 connector	
Material			
Housing		Aluminum , Delta-Seal coated	
Optical face		glass pane	
Connector		metal	
Mass		50 g	
Compliance with standards an directives	nd		
Directive conformity			
EMC Directive 2004/108/EC		EN 60947-5-2:2007	
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
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 ≤36 V	

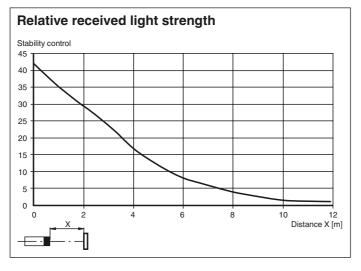
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Curves/Diagrams





IO link function

The IO link operating mode is indicated by the green LED indicator with a short interruption (f = 1 Hz). IO link communication simultaneously provides process data (measurement data from the sensor) and access to requirement data. The requirement data contains the following information:

Identification:

- Manufacturer information
- Product ID
- User-specific ID

Device parameters:

- Teach-in parameters
- Operating parameters •
- ٠ Configuration parameters
- · Device commands

Diagnostic messages and warnings