Dimensions



VISC‡ @ 10-Link CE

Model Number

MLV41-6-IO/95/136

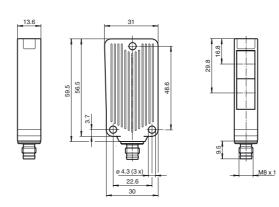
Retroreflective sensor with 4-pin, M8 x 1 connector

Features

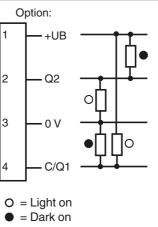
- Rugged series in corrosion-resistant metal housing
- IO-link interface for service and pro-٠ cess data
- Extremely high switching frequency .
- Clear and functional display concept • for the operating modes
- Resistant against noise: reliable ope-٠ ration under all conditions
- Aluminum housing with 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 grouped together under the VISO+ quality symbol. 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.



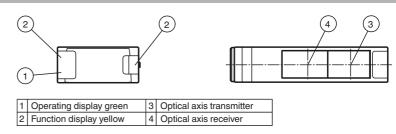
Electrical connection



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

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Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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Technical data			Accessories	
General specifications				
•		0.05m	OMH-09	
Effective detection range Reflector distance		0 9.5 m Foil reflector 0.05 3 m	Mounting bracket for Sensors series	
Threshold detection range		Retro-reflector 0.01 9.5 m 12 m	MLV41 for M12 rod mounting	
-			OMH-40 Mounting bracket	
Reference target		OFR-22800/76, H85-2 reflector		
Light source		LED	IO-Link-Master02-USB	
Light type		modulated visible red light , 625 nm	IO-Link master, supply via USB port or se- parate power supply, LED indicators, M12 plug for sensor connection	
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 Communication DTM for use of IO-Link- Master	
Optical face		frontal		
Ambient light limit		20000 Lux		
Functional safety related parar	meters		Matter	
MTTF _d		940 a	IODD Interpreter DTM	
Mission Time (T _M)		20 a	Software for the integration of IODDs in a	
Diagnostic Coverage (DC)		0 %	frame application (e.g. PACTware)	
Indicators/operating means			name application (c. g. 17,0 marc)	
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	PACTware 4.X FDT Framework MLV41-6 IODD	
		goes out briefly (1 Hz)		
Function indicator		2 LEDs yellow for switching state, Stability control		
Control elements		none	IODD for communication with MLV41-6-	
Electrical specifications			IO-Link sensors	
Operating voltage	U _B	10 30 V DC	Other suitable accessories can be found at	
Ripple	• • •	max. 10 %	www.pepperl-fuchs.com	
No-load supply current	I ₀	max. 30 mA	www.peppen-lucits.com	
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				
Degree of protection		IP67		
Connection		M8 x 1 connector, 4-pin		
Material				
Housing		aluminum, Delta-Seal coated		
Optical face		glass pane		
Connector		metal		
Mass		50 g		
Compliance with standards an ves	d direc	ti-		
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 \leq 36 V		
200 appional				

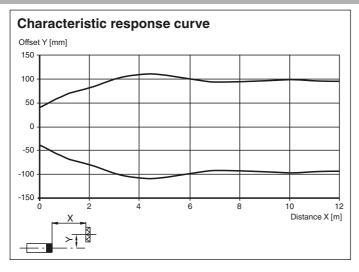
Date of issue: 2015-02-26 221592_eng.xml Release date: 2015-02-26 13:45

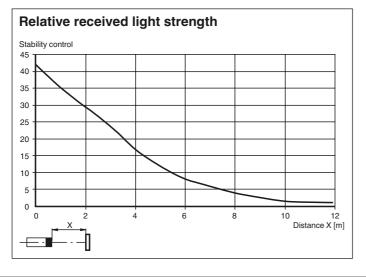
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Curves/Diagrams





IO-Link

The IO-Link Operating Mode is displayed in a short interception (f = 1 Hz) in the green LED display. The IO-Link communication makes process data (measured data of the sensor) and access to the necessity data available at the same time.

The necessity data contains the following information:

Identification:

- Producer information
- Product ID •
- User-specific ID ٠

Device parameter:

- ٠ Teach-in parameter
- ٠ Operation parameter
- Configuration parameter
- Device commandos

Diagnostic message and warnings

