Dimensions





VISC‡ @ 10-Link C€ c(UL)us

Model Number

MLV41-6-IO/95/136

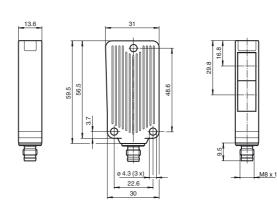
Retroreflective sensor with 4-pin, M8 x 1 connector

Features

- Rugged series in corrosion-resistant • metal housing
- IO-link interface for service and . process data
- Extremely high switching frequency .
- 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**

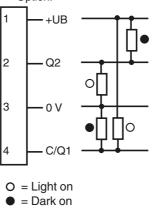
Product information

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, 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.

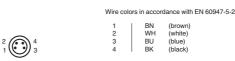


Electrical connection

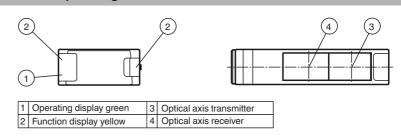
Option:



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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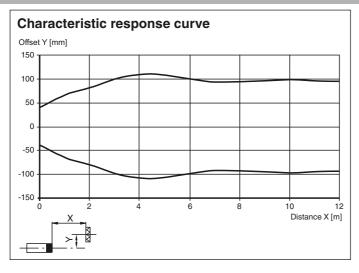
Technical data			Accessories	
General specifications			OMH-09	
Effective detection range		0 9.5 m	Mounting bracket for Sensors series	
Reflector distance		Foil reflector 0.05 3 m Retro-reflector 0.01 9.5 m	MLV41 for M12 rod mounting	
Threshold detection range		12 m	OMH-40 Mounting brooket	
Reference target		OFR-22800/76, H85-2 reflector	Mounting bracket	
Light source		LED	IO-Link-Master02-USB	
Light type		modulated visible red light , 625 nm	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection	
Polarization filter		no		
Angle deviation		max. \pm 1.5 °		
Diameter of the light spot Angle of divergence		approx. 300 mm at detection range 8.5 m 1.5 °		
Optical face		frontal	IO-Link-Master-USB DTM	
Ambient light limit		20000 Lux	Communication DTM for use of IO-Link-	
Functional safety related para	ameters		Master	
MTTF _d 940 a			IODD Interpreter DTM	
Mission Time (T _M)		20 a	Software for the integration of IODDs in a frame application (e. g. PACTware)	
Diagnostic Coverage (DC)		0 %		
Indicators/operating means			frame application (e. g. 1 ACT wate)	
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 4.1 FDT Framework	
Function indicator		goes out briefly (1 Hz) 2 LEDs yellow for switching state , Stability control	MLV41-6 IODD	
Control elements		none	IODD for communication with MLV41-6-	
Electrical specifications			IO-Link sensors	
Operating voltage	UB	10 30 V DC	Other suitable accessories can be found at	
Ripple	СB	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 0.5 ms		
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		M8 x 1 connector, 4-pin		
Material				
Housing		Aluminum , Delta-Seal coated		
Optical face		glass pane		
Connector		metal		
Mass		50 g		
Compliance with standards a directives	nd			
Directive conformity				
EMC Directive 2004/108/EC Standard conformity		EN 60947-5-2:2007		
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		

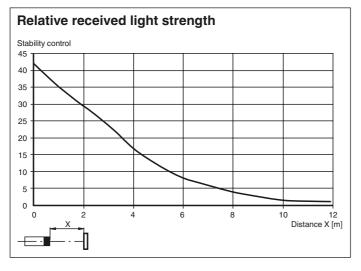
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Curves/Diagrams





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