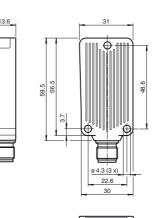
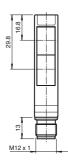
MLV41-55-IO/92/136





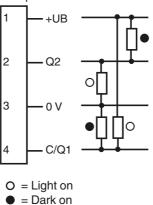






Electrical connection

Option:

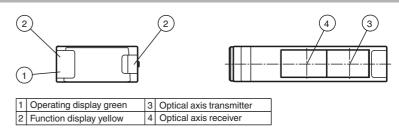








Indicators/operating means



eng.xml 221551_ 2019-11-27 Date of 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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Model Number MLV41-55-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

VISC‡ @ 10-Link

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

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

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

Technical data		Accessories
General specifications		ОМН-09
Effective detection range	0 8 m	Mounting bracket for Sensors series MLV41 for M12 rod mounting
Reflector distance	0.1 8 m	
Threshold detection range	10 m	
Reference target	H85-2 reflector	OMH-40 Mounting bracket
Light source	LED	
Light type	modulated visible red light , 625 nm	IO-Link-Master02-USB IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
Polarization filter	yes	
Angle deviation	max. ± 1.5 °	
Diameter of the light spot	approx. 300 mm at detection range 8.5 m	
Angle of divergence	1.5 °	
Optical face	frontal	IO-Link-Master-USB DTM Communication DTM for use of IO-Link- Master
Ambient light limit	20000 Lux	
Functional safety related parameters		
MTTF _d	844 a	
Mission Time (T_M)	20 a	IODD Interpreter DTM Software for the integration of IODDs in a frame application (e. g. PACTware) PACTware 4.1 FDT Framework
Diagnostic Coverage (DC)	0%	
U U U U	v /v	
Indicators/operating means	LED except station in the Device and the demonstration in the t	
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)	
Function indicator	LED yellow, lights up when light beam is free, flashes when falling short of the stability control	MLV41-55 IODD IODD for communication with MLV41-55-
Control elements	none	
Electrical specifications		IO-Link sensors
Operating voltage U _B	10 30 V DC	Other suitable accessories can be found a www.pepperl-fuchs.com
Ripple	max. 10 %	
No-load supply current I ₀	max. 30 mA	
Interface		
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,	
Signal output	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	
Conformity		
Product standard	EN 60947-5-2	
Ambient conditions		
	40 60 °C (40 140 °E)	
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	
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	
	, <u> </u>	

Release date: 2019-11-27 13:55 Date of issue: 2019-11-27 221551_eng.xml

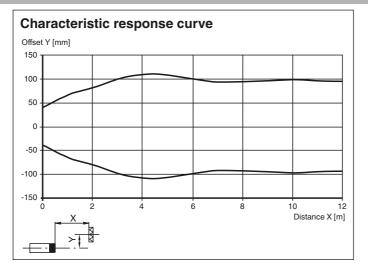
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

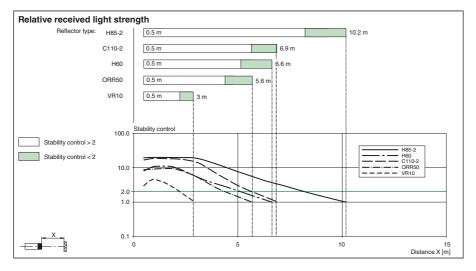
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Curves/Diagrams





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:

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

Diagnostic messages and warnings