### Dimensions





# CE **VISC**�

#### **Model Number**

### MLV41-55/25/95/136

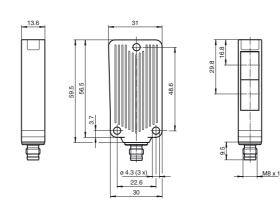
Retroreflective sensor with 4-pin, M8 x 1 connector

#### **Features**

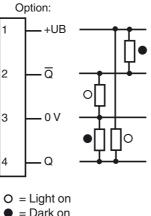
- Rugged series in corrosion-resistant ٠ metal housing
- Extremely high switching frequency ٠
- Clear and functional display concept • for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality ٠ Delta-Seal coated

#### **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 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**

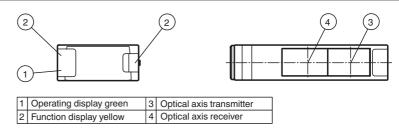


= Dark on

## Pinout



## Indicators/operating means



Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

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



Technical data			Accessories
General specifications		ОМН-09	
Effective detection range		0 8 m	
Reflector distance		0.1 8 m	Mounting bracket for Sensors series
Threshold detection range		10 m	MLV41 for M12 rod mounting OMH-40
Reference target		H85-2 reflector	Mounting bracket
Light source		LED	Mounting bracket
Light type		modulated visible red light , 625 nm	V31-WM-2M-PUR
Angle deviation		max. ± 1.5 °	4-pin, M8 socket, PUR cable
Diameter of the light spot		approx. 300 mm at detection range 8.5 m	
Angle of divergence		1.5 °	V31-GM-2M-PUR
Optical face		frontal	4-pin, M8 socket, PUR cable
Ambient light limit		20000 Lux	Other suitable accessories can be found at
Functional safety related parameters			www.pepperl-fuchs.com
MTTF <sub>d</sub>		844 a	
Mission Time (T <sub>M</sub> )		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means		LED sweep, stationly, lit Daway on Lindow altons indicatory	
Operating display		LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)	
Function display		LED yellow, lights up when light beam is free, flashes when fal- ling short of the stability control	
Controls		none	
Electrical specifications			
Operating voltage	UB	10 30 V DC	
Ripple		max. 10 %	
No-load supply current	I <sub>0</sub>	max. 30 mA	
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 Switching frequency	U <sub>d</sub>	≤ 2.5 V DC 1000 Hz	
Response time	1	0.5 ms	
Ambient conditions		0.0 113	
Ambient temperature		-40 60 °C (-40 140 °F)	
Storage temperature		-40 75 °C (-40 167 °F)	
Mechanical specifications			
Protection degree		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	nd directi	-	
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)	

UL approval CCC approval

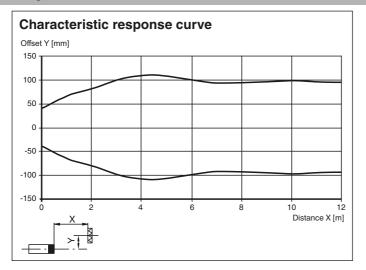
CCC approval / marking not required for products rated  $\leq$ 36 V

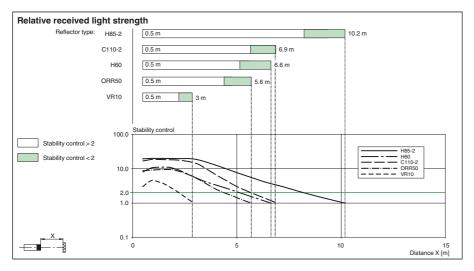
Germany: +49 621 776-4411

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



# **Curves/Diagrams**





Release date: 2013-02-04 14:13 Date of issue: 2013-02-18 221546\_eng.xml

Subject to modifications without notice

