

### **Model Number**

# MLV41-LL-RT-4393

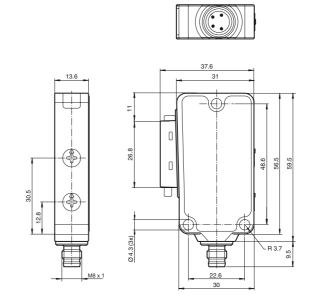
Fiber optic sensor with 4-pin, M8 x 1 connector

#### **Features**

- Robust housing with Delta Seal coating
- Protection degree IP67
- Not sensitive to ambient light, even with switched energy saving lamps
- Multiple device installation possible, no mutual interference
- Adjustable continuous sensitivity
- Protection class II

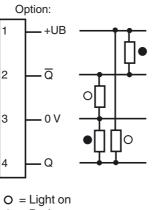
# **Product information**

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

Dimensions

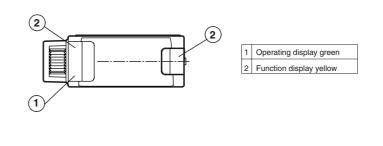


= Dark on

Pinout



# Indicators/operating means



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Technical data		
General specifications		
Sensor range		up to 45 mm
Detection range		(LMR 04-1,6-0,5-Z1) up to 120 mm
Detection range		(LME 04-1,6-0,5-Z1)
Light source		LED
Light type		modulated visible red light , 660 nm
Indicators/operating means		
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		Sensitivity adjuster, light/dark switch
Electrical specifications		
Operating voltage	UB	10 30 V DC
Ripple	-	max. 10 %
No-load supply current	I <sub>0</sub>	max. 35 mA
Output		
Switching type		light/dark on switchable
Signal output		2 Push-pull outputs, complementary, short-circuit proof, reverse polarity protected
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	Ud	≤ 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		
Fiber optic adapter		04
Protection degree		IP67
Connection		M8 x 1 connector, 4-pin
Material		
Housing		aluminum , Delta-Seal coated
Optical face		Fiber optic connection
Mass		50 g
Compliance with standards and o ves	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)
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Accessories

OMH-41 Mounting bracket

V31-WM-2M-PUR 4-pin, M8 socket, PUR cable

V31-GM-2M-PUR 4-pin, M8 socket, PUR cable

LCR 04-1,6-0,5-Z1 Glass fiber optic - diffuse with PVC covering

### LLR 04-1,6-0,5-G(M6x30) Glass fiber optic - diffuse with metal silicone covering

LCR 04-1,6-0,5-WC 3 Glass fiber optic - diffuse with PVC covering

LLR 04-1,6-0,5-W C3 Glass fiber optic - diffuse with metal silicone covering

LCE 04-1,6-1,0-Z1 Glass fiber optic - thru-beam with PVC covering

LCE 04-1,6-1,0 G Glass fiber optic - thru-beam with PVC covering

LLE 04-1,6-1,0-G Glass fiber optic - thru-beam with metal silicone covering

LCE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with PVC covering

LLE 04-1,6-1,0-W C3

Glass fiber optic - thru-beam with metal silicone covering

Other suitable accessories can be found at www.pepperl-fuchs.com

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