Dimensions



CE

Model Number

MLV41-LL-RT/92/136

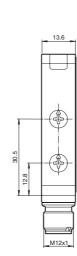
Fiber optic sensor with 4-pin, M12 x 1 connector

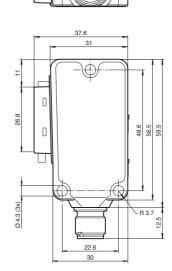
Features

- Robust fiber optic sensor for reliable operation under all conditions
- Adjustable continuous sensitivity
- Easy fiber optic installation with quick-• action clamping lock
- Aluminum housing with high-quality Delta Seal coating

Product information

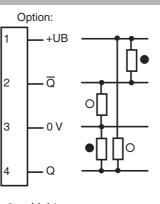
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions. For example, highly visible status LEDs on the front and back, resistance to ambient light, 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.





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Electrical connection

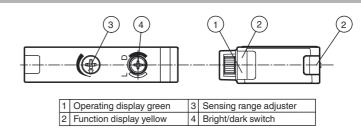




Pinout



Indicators/operating means



Pepperl+Fuchs Group

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



Technical data			Accessories	
General specifications			OMH-41	
Sensor range		on black (6 %): up to 36 mm on Kodak white, reflection factor 90% up to 120 mm with LLR 04-1.6-0.5-WC3 fiberoptic cable	Mounting bracket	
Adjustment range		0 120 mm on Kodak white, reflection factor 90%	V1-G-2M-PUR	
Reference target		100 mm x 100 mm on Kodak white, reflection factor 90%	Female cordset, M12, 4-pin, PUR cable	
Light source		LED	V1-W-2M-PUR	
Light type		modulated visible red light , 660 nm	Female cordset, M12, 4-pin, PUR cable	
Functional safety related pa	rameters			
MTTF _d 770 a		770 a	LCR 04-1,6-0,5-Z1	
Mission Time (T _M)		20 a	Glass fiber optic - diffuse with PVC co- vering	
Diagnostic Coverage (DC)		0 %		
Indicators/operating means			voling	
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)	LLR 04-1,6-0,5-G(M6x30) Glass fiber optic - diffuse with metal silico- ne covering	
Function indicator		LED yellow, lights up with receiver lit ; flashes when falling short of the stability control	LCR 04-1,6-0,5-WC 3	
Control elements		Sensitivity adjuster, light/dark switch	Glass fiber optic - diffuse with PVC co-	
Electrical specifications			vering	
Operating voltage	U _B	10 30 V DC		
Ripple		max. 10 %	LLR 04-1,6-0,5-W C3 Glass fiber optic - diffuse with metal silico- ne covering	
No-load supply current	I ₀	max. 40 mA		
Output				
Switching type		light/dark on switchable The switching modes specified in the "Electrical Connection" section apply to L/D switches in the "D" position (dark switch)	LCE 04-1,6-1,0-Z1 Glass fiber optic - thru-beam with PVC co- vering	
Signal output		2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected		
Switching voltage		max. 30 V DC	LCE 04-1,6-1,0 G Glass fiber optic - thru-beam with PVC co- vering LLE 04-1,6-1,0-G	
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			Glass fiber optic - thru-beam with metal si-	
Ambient temperature		-20 60 °C (-4 140 °F)	licone covering	
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications			LCE 04-1,6-1,0-W C3	
Fiber optic adapter		04	Glass fiber optic - thru-beam with PVC co vering	
Protection degree		IP67		
Connection		4-pin, M12 x 1 connector		
Material			LLE 04-1,6-1,0-W C3	
Housing		aluminum, Delta-Seal coated	Glass fiber optic - thru-beam with metal si licone covering	
Optical face		Fiber optic connection		
Connector		metal	Other suitable accessories can be found a www.pepperl-fuchs.com	
Mass		50 g		
Compliance with standards ves	and direct	i-	www.pepper-ruchs.com	
Directive conformity				
EMC Directive 2004/108/E	0	EN 60947-5-2:2007		
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
Approvals and certificates				
Protection class		II, rated voltage \leq 50 V AC with pollution degree 1-2 according to IEC 60664-1 functional insulation acc. to DIN EN 50178		
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		

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

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