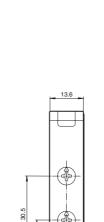
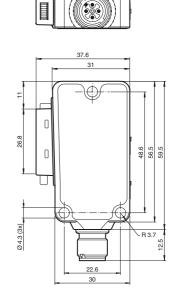
VISC¢

Dimensions

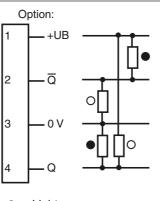


12.8

M12x1



Electrical connection

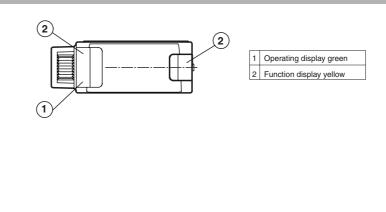








Indicators/operating means



Model Number

CE

MLV41-LL-IR/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 quickaction 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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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical data			Accessories	
General specifications			OMH-41	
Sensor range		up to 90 mm (LMR 04-1,6-0,5-Z1)	Mounting bracket	
Detection range		up to 240 mm (LME 04-1,6-0,5-Z1)	V1-G-2M-PUR	
Light source		IRED	Female cordset, M12, 4-pin, PUR cable	
Light type		modulated infrared light, 880 nm	V1-W-2M-PUR	
Functional safety related param	neters		Female cordset, M12, 4-pin, PUR cable	
MTTF _d		770 a		
Mission Time (T _M)		20 a	LCR 04-1,6-0,5-Z1 Glass fiber optic - diffuse with PVC co-	
Diagnostic Coverage (DC)		0 %		
Indicators/operating means			vering	
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 when light beam is free, flashes when fal- ling short of the stability control		
Control elements		Sensitivity adjuster, light/dark switch	LCR 04-1,6-0,5-WC 3 Glass fiber optic - diffuse with PVC co-	
Electrical specifications				
Operating voltage	U _B	10 30 V DC	vering	
Ripple		max. 10 %		
No-load supply current	I ₀	max. 35 mA	LLR 04-1,6-0,5-W C3 Glass fiber optic - diffuse with metal silico- ne covering	
Output				
Switching type		light/dark on switchable		
Signal output		2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected	LCE 04-1,6-1,0-Z1 Glass fiber optic - thru-beam with PVC co- vering	
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA		
Voltage drop	Ud	≤ 2.5 V DC		
Switching frequency	f	1000 Hz	LCE 04-1,6-1,0 G Glass fiber optic - thru-beam with PVC co-	
Response time		0.5 ms		
Ambient conditions			vering	
Ambient temperature		-40 60 °C (-40 140 °F)		
Storage temperature		-40 75 °C (-40 167 °F)	LLE 04-1,6-1,0-G Glass fiber optic - thru-beam with metal si- licone covering	
Mechanical specifications				
Fiber optic adapter		04		
Degree of protection		IP67	LCE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with PVC co- vering	
Connection		4-pin, M12 x 1 connector		
Material				
Housing		aluminum , Delta-Seal coated		
Optical face		Fiber optic connection	LLE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with metal si-	
Connector		metal		
Mass		50 g		
Compliance with standards and ves	d direct	i-	licone covering	
Directive conformity			Other suitable accessories can be found at	
EMC Directive 2004/108/EC		EN 60947-5-2:2007	www.pepperl-fuchs.com	
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
Approvals and certificates				
Protection class		II, rated voltage ≤ 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		

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