

CE C

Model Number

MLV41-LL-IR-2492

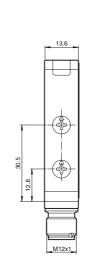
Fiber optic sensor with 4-pin, M12 x 1 connector

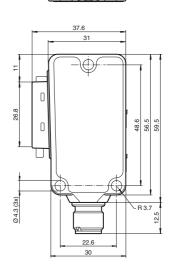
Features

- 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

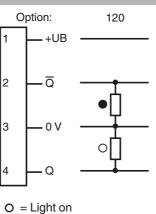
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions. For example, highly visible status LEDs on the front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





Electrical connection

Dimensions

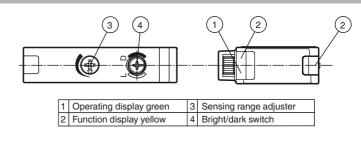


= Dark on

Pinout



Indicators/operating means



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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		on black (6 %): up to 55 mm on Kodak white, reflection factor 90% up to 160 mm	Mounting bracket	
Adjustment range		with LLR 04-1.6-0.5-WC3 fiberoptic cable 0 160 mm on Kodak white, reflection factor 90%	V1-G-2M-PUR	
Adjustment range Reference target		100 mm x 100 mm on Kodak white, reflection factor 90%	Female cordset, M12, 4-pin, PUR cable	
Light source		IRED		
•			V1-W-2M-PUR	
Light type	vo motovo	modulated infrared light, 880 nm	Female cordset, M12, 4-pin, PUR cable	
Functional safety related parameters MTTF _{ct} 770 a		LCR 04-1,6-0,5-Z1		
MTTF _d		20 a	Glass fiber optic - diffuse with PVC	
Mission Time (T _M)		0%		
Diagnostic Coverage (DC)		0 %	covering	
Indicators/operating means			LLR 04-1,6-0,5-G(M6x30)	
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)	Glass fiber optic - diffuse with metal silicone 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 covering	
Electrical specifications				
Operating voltage	UB	10 30 V DC		
Ripple		max. 10 %	LLR 04-1,6-0,5-W C3 Glass fiber optic - diffuse with metal	
No-load supply current	I ₀	max. 40 mA		
Output			silicone covering	
Switching type		light/dark on switchable The switching modes specified in the "Electrical Connection" section apply to L/D switches in the "L" position (light switch)	LCE 04-1,6-1,0-Z1 Glass fiber optic - thru-beam with PVC covering	
Signal output		2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors		
Switching voltage		max. 30 V DC	LCE 04-1,6-1,0 G	
Switching current		max. 100 mA	Glass fiber optic - thru-beam with PVC covering	
Voltage drop	U _d	≤ 2.5 V DC		
Switching frequency	f	1000 Hz		
Response time 0.5 ms			LLE 04-1,6-1,0-G	
Conformity			Glass fiber optic - thru-beam with metal silicone covering	
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-20 60 °C (-4 140 °F)	LCE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with PVC	
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications			covering	
Housing width		31 mm		
Housing height		56.5 mm	LLE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with metal silicone covering	
Housing depth		13.6 mm		
Fiber optic adapter		04		
Degree of protection		IP67	Other suitable accessories can be found	
Connection		4-pin, M12 x 1 connector	www.pepperl-fuchs.com	
Material				
Housing		Aluminum, Delta-Seal coated		
Optical face		Fiber optic connection		
Connector		metal		
Mass		50 g		
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		

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