

CE C US

Model Number

MLV41-LL-IR/115/136

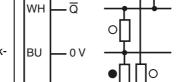
Fiber optic sensor with 2 m fixed cable

Features

- Robust fiber optic sensor for reliable • operation under all conditions
- Adjustable continuous sensitivity ٠
- Easy fiber optic installation with quick-• action clamping lock
- Aluminum housing with high-quality Delta Seal coating

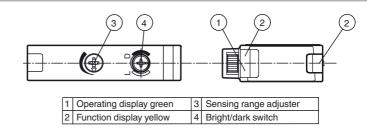
Product information

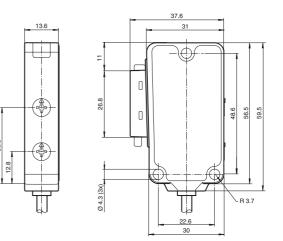
The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions. For example, highly visible status LEDs on the front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





Indicators/operating means



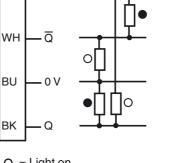


Electrical connection

+UB

Option:

ΒN



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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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 with LLR 04-1.6-0.5-WC3 fiberoptic cable	Mounting bracket	
Adjustment range		0 160 mm on Kodak white, reflection factor 90%	LCR 04-1,6-0,5-Z1	
Reference target		100 mm x 100 mm on Kodak white, reflection factor 90%	Glass fiber optic - diffuse with PVC co- vering	
Light source		IRED		
Light type		modulated infrared light , 880 nm		
Functional safety related parameters		LLR 04-1,6-0,5-G(M6x30) Glass fiber optic - diffuse with metal silico		
MTTF _d 770 a				
Mission Time (T _M)		20 a	ne covering	
Diagnostic Coverage (DC)		0%	LCR 04-1,6-0,5-WC 3	
	ators/operating means			
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 PVC co- vering LLR 04-1,6-0,5-W C3	
Function indicator		LED yellow, lights up with receiver lit ; flashes when falling short of the stability control	Glass fiber optic - diffuse with metal silico- ne covering	
Control elements		Sensitivity adjuster, light/dark switch		
Electrical specifications			LCE 04-1,6-1,0-Z1	
Operating voltage	UB	10 30 V DC	Glass fiber optic - thru-beam with PVC co- vering	
Ripple		max. 10 %		
No-load supply current	I ₀	max. 40 mA		
Dutput			LCE 04-1,6-1,0 G	
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)	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	LLE 04-1,6-1,0-G Glass fiber optic - thru-beam with metal si- licone covering	
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA		
Voltage drop	Ud	≤ 2.5 V DC	LCE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with PVC co-	
Switching frequency	f	1000 Hz		
Response time		0.5 ms		
Ambient conditions			vering	
Ambient temperature		-20 60 °C (-4 140 °F)	LLE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with metal si- licone covering	
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications				
Housing width		31 mm	licence covering	
Housing height		56.5 mm	Other suitable accessories can be found at www.pepperl-fuchs.com	
Housing depth		13.6 mm		
Fiber optic adapter		04		
Degree of protection		IP67		
Connection		2 m fixed cable , 5-pin		
Material				
Housing		Aluminum , Delta-Seal coated		
Optical face		Fiber optic connection		
Mass		50 g		
Compliance with standards and ves	direct	j-		
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				
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)		

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2

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