

CE C

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.

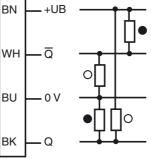


13.6

6.8

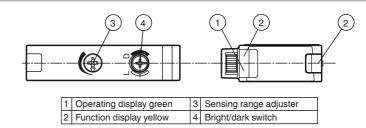
Ø 4.3 (3x)

Π





Indicators/operating means



Dimensions

37.6

31

22.6

48.6 56.5 59.5

R 3.7

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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 Glass fiber optic - diffuse with PVC covering	
Reference target		100 mm x 100 mm on Kodak white, reflection factor 90%		
Light source		IRED		
Light type		modulated infrared light, 880 nm		
Functional safety related parameters			LLR 04-1,6-0,5-G(M6x30)	
MTTF _d		770 a	Glass fiber optic - diffuse with metal	
Mission Time (T _M)		20 a	silicone covering	
Diagnostic Coverage (DC)		0 %	LCR 04-1,6-0,5-WC 3	
Indicators/operating means			Glass fiber optic - diffuse with PVC	
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)	Covering LLR 04-1,6-0,5-W C3 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		
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 covering	
Ripple		max. 10 %		
No-load supply current	I ₀	max. 40 mA		
Output			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 covering	
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 silicone covering	
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA		
Voltage drop	U _d	≤ 2.5 V DC	LCE 04-1,6-1,0-W C3 Glass fiber optic - thru-beam with PVC covering	
Switching frequency	f	1000 Hz		
Response time		0.5 ms		
Conformity			covering	
Product standard EN 60947-5-2			LLE 04-1,6-1,0-W C3	
Ambient conditions			Glass fiber optic - thru-beam with metal	
Ambient temperature		-20 60 °C (-4 140 °F)	silicone covering	
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications			Other suitable accessories can be found	
Housing width		31 mm	www.pepperl-fuchs.com	
Housing height		56.5 mm		
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		
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 ${\leq}36~\text{V}$		

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