59.5













Model Number

MLV41-LL-RT/115/136

Fiber optic sensor with 2 m fixed cable

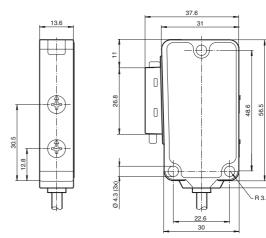
Features

- 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

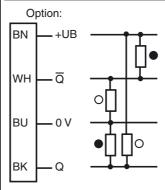
Product information

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.

Dimensions

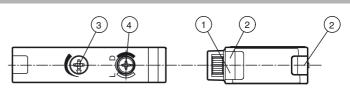


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



1	Operating display green	3	Sensing range adjuster
2	Function display yellow	4	Bright/dark switch

Technical data					
General specifications					
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			
Adjustment range		0 120 mm on Kodak white, reflection factor 90%			
Reference target		100 mm x 100 mm on Kodak white, reflection factor 90%			
Light source		LED			
Light type		modulated visible red light , 660 nm			
Functional safety related parame	ters				
MTTF _d		770 a			
Mission Time (T _M)		20 a			
Diagnostic Coverage (DC)		0 %			
Indicators/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)			
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					
Operating voltage	U_B	10 30 V DC			
Ripple		max. 10 %			
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)			
Signal output		2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected			
Switching voltage		max. 30 V DC			
Switching current		max. 100 mA			
Voltage drop	U _d	≤ 2.5 V DC			
Switching frequency	f	1000 Hz			
Response time		0.5 ms			
Conformity		5N 000 /5 5 0			
Product standard		EN 60947-5-2			
Ambient conditions		00 00 00 / 4 440 05			
Ambient temperature		-20 60 °C (-4 140 °F)			
Storage temperature		-40 75 °C (-40 167 °F)			
Mechanical specifications		01			
Housing width		31 mm			
Housing death		56.5 mm 13.6 mm			
Housing depth Fiber optic adapter		04			
Degree of protection		IP67			
Connection		2 m fixed cable , 5-pin			
Material		Z III lixed edible , o pili			
Housing		Aluminum , Delta-Seal coated			
Optical face		Fiber optic connection			
Mass		50 g			
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 <26 V			

Accessories

OMH-41

Mounting bracket

LCR 04-1,6-0,5-Z1

Glass fiber optic - diffuse with PVC covering

LLR 04-1,6-0,5-G(M6x30)

Glass fiber optic - diffuse with metal silicone covering

LCR 04-1,6-0,5-WC 3

Glass fiber optic - diffuse with PVC covering

LLR 04-1,6-0,5-W C3

Glass fiber optic - diffuse with metal silicone covering

LCE 04-1,6-1,0-Z1

Glass fiber optic - thru-beam with PVC covering

LCE 04-1.6-1.0 G

Glass fiber optic - thru-beam with PVC covering

LLE 04-1,6-1,0-G

Glass fiber optic - thru-beam with metal silicone covering

LCE 04-1,6-1,0-W C3

Glass fiber optic - thru-beam with PVC covering

LLE 04-1,6-1,0-W C3

Glass fiber optic - thru-beam with metal silicone covering

Other suitable accessories can be found at www.pepperl-fuchs.com

CCC approval

CCC approval / marking not required for products rated \leq 36 V