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Model Number

MLV41-LL-RT/115/136

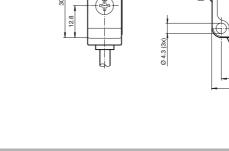
Fiber optic sensor with 2 m fixed cable

Features

- Robust fiber optic sensor for reliable • operation under all conditions
- Adjustable continuous sensitivity 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.

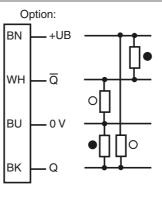


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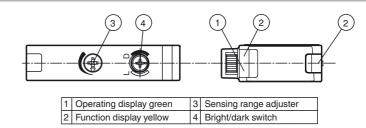
13.6

Electrical connection





Indicators/operating means



48.6 56.5 59.5

R 3.7

37.6

31

22.6

Dimensions

Pepperl+Fuchs Group

www.pepperl-fuchs.com

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 36 mm on Kodak white, reflection factor 90% up to 120 mm | Mounting bracket | |
| Adjustment range | | with LLR 04-1.6-0.5-WC3 fiberoptic cable 0 120 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 | | LED | | |
| Light type | | modulated visible red light , 660 nm | | |
| Functional safety related parameters | | modulated visible red light, ood him | LLR 04-1,6-0,5-G(M6x30) | |
| MTTF _d | | 770 a | Glass fiber optic - diffuse with metal silico- | |
| Mission Time (T _M) | | 20 a | ne covering | |
| Diagnostic Coverage (DC) | | 0% | LCR 04-1,6-0,5-WC 3 | |
| | | 0 /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) | Glass fiber optic - diffuse with PVC co- vering LLR 04-1,6-0,5-W C3 Glass fiber optic - diffuse with metal silico- | |
| Function indicator | | LED yellow, lights up with receiver lit ; flashes when falling short of the stability control | | |
| Control elements | | Sensitivity adjuster, light/dark switch | ne covering | |
| 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 | | |
| 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 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 | U _d | ≤ 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 | | |
| 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 | d direct | F | | |
| Directive conformity | | EN 000 (7 5 0 0007 | | |
| EMC Directive 2004/108/EC | | EN 60947-5-2:2007 | | |
| Standard conformity | | EN 000 (7 5 0 0007 | | |
| 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 | | |
| | | | | |

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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