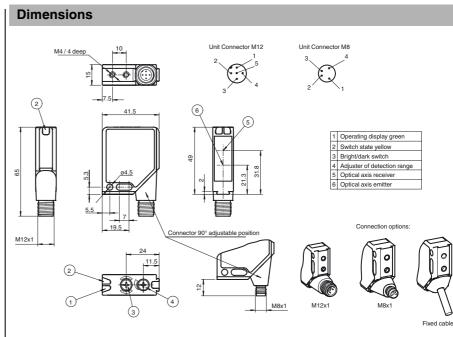
CE VISC\$



Model Number

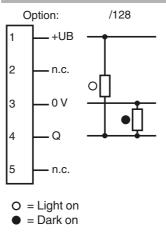
MLV12-8-HW-RT/65b/124/128

Triangulation sensor (BGE) with metal connector M12; 5-pin, 90° convertible

Features

- Series of sensors in a widely used • standard housing
- Reliable detection of all surfaces, independent of color and structure
- Minimal black-white difference
- High level of stability thanks to the • metal housing frame
- Resistant against noise: reliable operation under all conditions

Electrical connection



Pinout



BN WH BU BK GY (brown) (white) (blue) (black) (gray)

Wire colors in acco

ance with EN 60947-5-2

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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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Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com **EPPPERL+FUCHS** 1

| Technical data | | | Accessories |
|--------------------------------------|----------------|---|---|
| General specifications | | | OMH-MLV12-HWG |
| Detection range | | 50 150 mm , adjustable | Mounting bracket for series MLV12 |
| Adjustment range | | 50 150 mm | sensors |
| Light source | | LED | 36113013 |
| Light type | | modulated visible red light , 680 nm | OMH-MLV12-HWK |
| Diameter of the light spot | | 4 mm at Tw 150 mm | Mounting bracket for series MLV12 |
| Angle of divergence | | 1.5 ° | sensors |
| Ambient light limit | | | |
| Continuous light | | 30000 Lux | OMH-K01 |
| Modulated light | | 5000 Lux | dove tail mounting clamp |
| Functional safety related p | arameters | | |
| MTTFd | | 650 a | OMH-K02 |
| Mission Time (T _M) | | 20 a | dove tail mounting clamp |
| Diagnostic Coverage (DC) | | 0 % | |
| Indicators/operating mean | s | | ОМН-К03 |
| Operation indicator | | LED green, flashes in case of short-circuit | dove tail mounting clamp |
| Function indicator | | LED yellow ON: sensor detects background | OMH-06 |
| Control elements | | potentiometer for light/dark, detection range adjustment | |
| Electrical specifications | | , | Mounting aid for round steel ø 12 mm or |
| Operating voltage | U _B | 10 30 V DC | sheet 1.5 mm 3 mm |
| Ripple | ΟB | max. 10 % | V15-G-2M-PUR Female cordset, M12, 5-pin, PUR cable |
| No-load supply current | I ₀ | ≤ 55 mA | |
| Output | 0' | | |
| • | | light/dark on awitchable | Other suitable accessories can be found at |
| Switching type Signal output | | light/dark on switchable 1 push-pull (4 in 1) output, short-circuit protected, reverse | www.pepperl-fuchs.com |
| Signal output | | polarity protected, 0.2 A / 30 V DC | |
| Switching voltage | | max. 30 V DC | |
| Switching current | | max. 0.2 A | |
| Voltage drop | U _d | ≤ 2.5 V DC | |
| Switching frequency | f | 1000 Hz | |
| Response time | • | 0.5 ms | |
| Conformity | | | |
| Product standard | | EN 60947-5-2 | |
| Ambient conditions | | | |
| Ambient temperature | | -40 60 °C (-40 140 °F) | |
| Storage temperature | | -40 75 °C (-40 167 °F) | |
| | | -40 73 (C (-40 107 F) | |
| Mechanical specifications | | 14 E mar | |
| Housing width | | 41.5 mm | |
| Housing height | | 49 mm | |
| Housing depth | | 15 mm | |
| Degree of protection | | IP67 Matel connector M10 5 pin 00% retatable | |
| Connection Material | | Metal connector, M12, 5-pin, 90° rotatable | |
| | | Eremer nickel plated dia east zine | |
| Housing | | Frame: nickel plated, die cast zinc, Laterals: glass-fiber reinforced plastic PC | |
| Optical face | | Plastic pane | |
| Mass | | 60 g | |
| Compliance with standards directives | s and | - | |
| Standard conformity | | | |
| Shock and impact resistar | nce | IEC / EN 60068. half-sine, 40 g in each X, Y and Z directions | |
| Vibration resistance | | IEC / EN 60068-2-6. Sinus. 10 -150 Hz, 5 g in each X, Y and Z directions | |
| Standards | | UL 508 | |
| Approvals and certificates | | | |
| Protection class | - | II, rated voltage \leq 300 V AC with pollution degree 1-2 according to IEC 60664-1 | |
| UL approval | | cULus | |
| | | | |

Protection class UL approval CCC approval

CCC approval / marking not required for products rated ≤36 V

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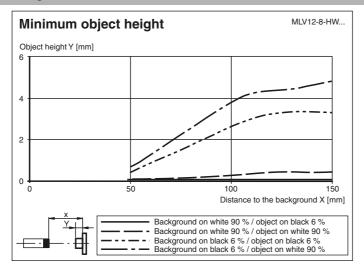
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Curves/Diagrams



Notes

- 1. Mount sensor at a distance of 50 mm to 150 mm to the background.
- Set the detection range in such a way that the yellow LEDs just switch. 2.
- 3. Place the object and move between background and sensor; the yellow LEDs must extinguish.

Preferably the background should be light or white.

Object should move transversely to the sensor.

The background should not vary in height.