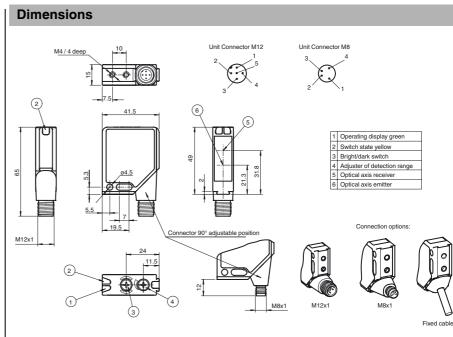
CE VISC\$



Model Number

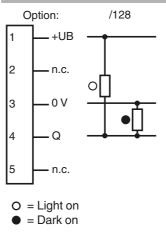
MLV12-8-HW-RT/65b/124/128

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

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

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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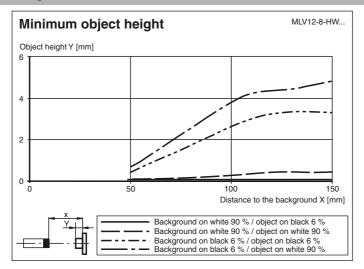
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EPPERL+FUCHS

2

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.