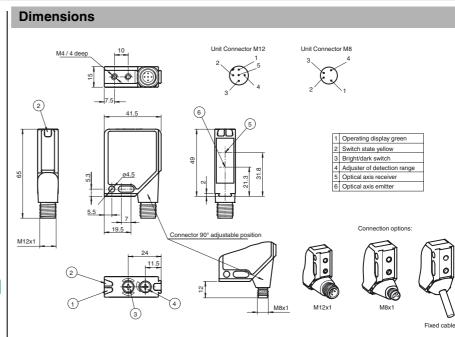
# MLV12-8-HW-RT/47/65b/124

CE VISC\$ 



## **Model Number**

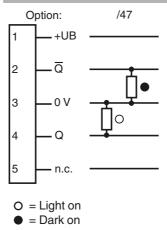
## MLV12-8-HW-RT/47/65b/124

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



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

Wire colors in acco

ance with EN 60947-5-2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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1

CCC approval

Technical data			Accessories	
General specifications			OMH-MLV12-HWG	
Detection range		50 150 mm , adjustable	Mounting bracket for series MLV12	
Adjustment range		50 150 mm	_	
Light source		LED	sensors	
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			3613013	
Continuous light		30000 Lux	OMH-K01	
Modulated light		5000 Lux	dove tail mounting clamp	
Functional safety related parameters				
MTTF <sub>d</sub>		650 a	OMH-K02	
Mission Time (T <sub>M</sub> )		20 a	dove tail mounting clamp	
Diagnostic Coverage (DC)		0 %		
Indicators/operating means			ОМН-К03	
Operation indicator		LED green, flashes in case of short-circuit	dove tail mounting clamp	
Function indicator		LED yellow ON: sensor detects background	ОМН-06	
Control elements		potentiometer for light/dark, detection range adjustment		
Electrical specifications			Mounting aid for round steel ø 12 mm or	
Operating voltage	U <sub>B</sub>	10 30 V DC	sheet 1.5 mm 3 mm	
Ripple	UB	max. 10 %	V15-G-2M-PUR Female cordset, M12, 5-pin, PUR cable	
	Ŀ	≤ 55 mA		
No-load supply current	I <sub>0</sub>	≤ 55 IIIA		
Output			Other suitable accessories can be found at	
Switching type		light/dark on switchable	www.pepperl-fuchs.com	
Signal output		2 PNP outputs, complementary, short-circuit protected, reverse polarity protected, open collector		
Switching voltage		max. 30 V DC		
Switching current		max. 0.2 A		
Voltage drop	Ud	≤ 2.5 V DC		
Switching frequency	f d	1000 Hz		
Response time		0.5 ms		
Conformity		0.0 113		
Product standard		EN 60947-5-2		
		LN 00347-5-2		
Ambient conditions				
Ambient temperature		-40 60 °C (-40 140 °F)		
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications				
Housing width		41.5 mm		
Housing height		49 mm		
Housing depth		15 mm		
Degree of protection				
Connection		Metal connector, M12, 5-pin, 90° rotatable		
Material				
Housing		Frame: nickel plated, die cast zinc, Laterals: glass-fiber reinforced plastic PC		
Optical face		Plastic pane		
Mass		60 g		
Compliance with standards directives	and			
Standard conformity				
Shock and impact resistant	ce	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		

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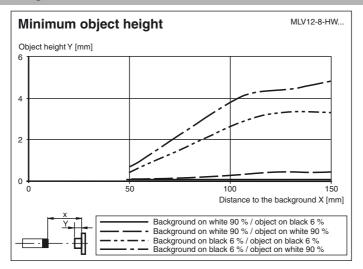
CCC approval / marking not required for products rated  $\leq$ 36 V

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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.