MLV12-8-HW-RT/47/65b/95

Model Number

Features

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MLV12-8-HW-RT/47/65b/95

Triangulation sensor (BGE)

with M8, 4-pin metal connector

standard housing

metal housing frame

Series of sensors in a widely used

Reliable detection of all surfaces,

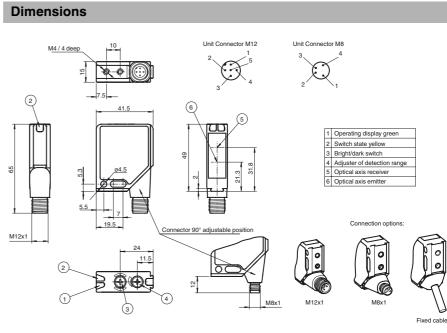
Minimal black-white difference

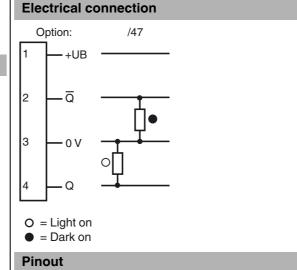
independent of color and structure

High level of stability thanks to the

Resistant against noise: reliable

operation under all conditions





Wire colors in accordance with EN 60947-5-2 BN WH BU BK (brown) (white) (blue) (black) 2 3 4 ²₁ 3



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

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UL approval 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	sensors
Light source		LED	3013013
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 parameters			
MTTFd		650 a	OMH-K02
Mission Time (T _M)		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	0.000
Control elements		potentiometer for light/dark, detection range adjustment	OMH-06
		potentioneter for light/dark, detection range aujustment	Mounting aid for round steel ø 12 mm or
Electrical specifications		10 00.1/ 00	sheet 1.5 mm 3 mm
Operating voltage	UB	10 30 V DC	
Ripple		max. 10 %	V31-WM-2M-PUR
No-load supply current	I ₀	≤ 55 mA	Female cordset single-ended, M8, 4-pin,
Output			PUR cable
Switching type		light/dark on switchable	
Signal output		2 PNP outputs, complementary, short-circuit protected, reverse	V31-GM-2M-PUR
		polarity protected, open collector	Female cordset single-ended, M8, 4-pin,
Switching voltage		max. 30 V DC	PUR cable
Switching current		max. 0.2 A	
Voltage drop	U _d	≤ 2.5 V DC	Other suitable accessories can be found a
Switching frequency	f	1000 Hz	www.pepperl-fuchs.com
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)	
Mechanical specifications			
Housing width		41.5 mm	
Housing height		49 mm	
Housing depth		15 mm	
Degree of protection		IP67	
Connection		4-pin M8 metal connector, 90° rotatable	
Material			
		Frame: nickel plated, die 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 and directives	d		
Standard conformity			
Shock and impact resistance		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			
UL approval		cULus	

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

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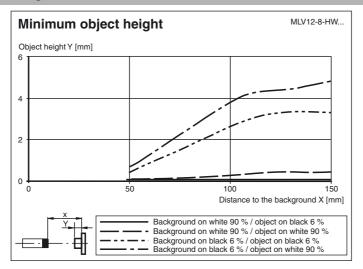
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Curves/Diagrams



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.