











Model Number

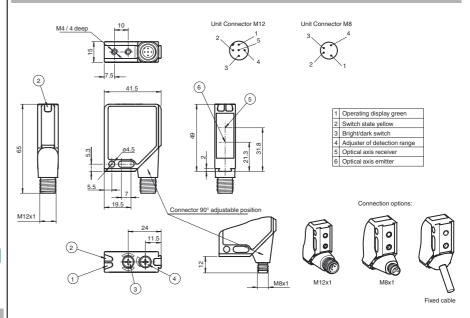
MLV12-8-H-250-RT/65b/124/128/134

Background suppression sensor with metal connector M12; 5-pin, 90° convertible

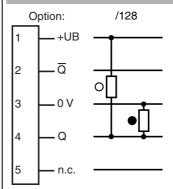
Features

- Reliable detection of all surfaces, independent of color and structure
- Minimal black-white difference
- Optical surface made of scratch-resistant glass
- Ultra bright LEDs for power on and switching state
- Flashing power on LED in case of short-circuit
- Powerful push-pull output
- Not sensitive to ambient light, even with switched energy saving lamps
- Multiple device installation possible, no mutual interference (no cross-talk)
- Protection class II

Dimensions



Electrical connection



- O = Light on
- = Dark on

Pinout



Technical data		
General specifications		
Detection range		20 250 mm , adjustable
Detection range min.		20 50 mm
Detection range max.		20 250 mm
Adjustment range		50 250 mm
Light source		LED
Light type		modulated visible red light , 660 nm
Black/White difference (6 %/90 %)		10 % at 250 mm
Diameter of the light spot		8 mm at Tw 250 mm
Angle of divergence		1.5°
Ambient light limit		000001
Continuous light		30000 Lux 5000 Lux
Modulated light		5000 Lux
Functional safety related parameter	ters	CFO a
MTTF _d Mission Time (T _M)		650 a 20 a
Diagnostic Coverage (DC)		0%
J , ,		0 /0
Indicators/operating means Operation indicator		LED green, flashes in case of short-circuit
Function indicator		2 LEDs yellow
Tanotion indicator		ON: object inside the scanning range OFF: object outside the scanning range
Control elements		potentiometer for light/dark, detection range adjustment
Electrical specifications		
Operating voltage	U _B	10 30 V DC
Ripple		max. 10 %
No-load supply current	I ₀	≤ 55 mA
Output		
Switching type		light/dark on switchable
Signal output		1 push-pull (4 in 1) output, short-circuit protected, reverse 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
Ambient conditions		40 0000 (40 44005)
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		IP67
Degree of protection Connection		Metal connector, M12, 5-pin, 90° rotatable
Material		iviciai conficcioi, ivi 12, 3-piii, 30 Totatable
Housing		Frame: nickel plated, die cast zinc,
i louding		Laterals: glass-fiber reinforced plastic PC
Optical face		Scratch resistant mineral glass lens
Mass		60 g
Compliance with standards and o	directi-	
ves		
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
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
Approvals and certificates		
Protection class		II, rated voltage ≤ 300 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus
CCC approval		CCC approval / marking not required for products rated <36 V

Accessories

OMH-MLV12-HWG

Mounting bracket for series MLV12 sensors

OMH-MLV12-HWK

Mounting bracket for series MLV12 sensors

OMH-K01

dove tail mounting clamp

OMH-K02

dove tail mounting clamp

OMH-K03

dove tail mounting clamp

OMH-06

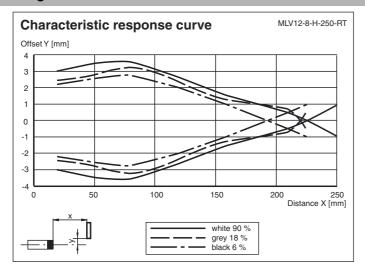
Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

Other suitable accessories can be found at www.pepperl-fuchs.com

CCC approval

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

Curves/Diagrams



Curves/Diagrams

