



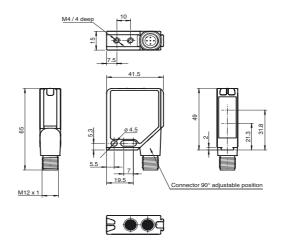


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Dimensions



Model Number

SLA12-LAS-T/35/124

Safety thru-beam sensor with laser with metal connector M12; 5-pin, 90° convertible

Features

- Sensing range 30 m
- Visible red light, pulsed LASER light
- Laser class 1, eyesafe
- Performance Level PL e
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Sturdy housing
- Waterproof, degree of protection IP67
- Operation on control units of SB4 (SafeBox)

Accessories

SLA-1-M

Deviation mirror

OMH-06

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date:

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

OMH-MLV12-HWG

Mounting bracket for series MLV12 sensors

OMH-MLV12-HWK

Mounting bracket for series MLV12 sensors

OMH-K01

dove tail mounting clamp

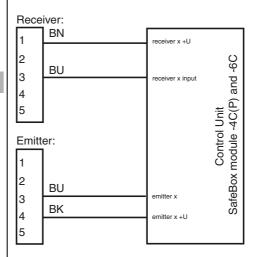
dove tail mounting clamp

V15-W-5M-PVC

Female cordset, M12, 5-pin, PVC cable

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

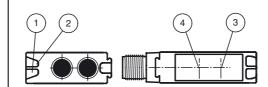
Electrical connection



Pinout



Indicators/operating means



- Operating display green
- Switch state yellow
- Optical axis emitter/Optical axis receiver
- Alignment indicator red

Technical data					
System components					
Emitter		SLA12-LAS-T/35/124			
Receiver		SLA12-R/124			
General specifications					
Effective detection range		3 30 m			
Light source		laser diode			
Light type		modulated visible red light			
Laser nominal ratings					
Note		LASER LIGHT , DO NOT STARE INTO BEAM			
Laser class		1			
Wave length		650 nm			
Beam divergence		1 mrad			
Pulse length		35 μs			
Repetition rate		200 Hz			
Target size		static: 10 mm dynamic: 30 mm (at v = 1.6 m/s of the obstacle)			
Alignment aid		LED red			
Angle of divergence		<5 °			
Functional safety related paramete	rs				
Safety Integrity Level (SIL)		SIL 3			
Performance level (PL)		PLe			
Category		Cat. 4			
Mission Time (T _M)		20 a			
PFH _d		4.4 E-10			
Type		4			
Indicators/operating means					
Operation indicator		LED green			
Function indicator		LED yellow: 1. LED lit constantly: signal > 2 x switching point (function reserve) 2. LED flashes: signal between 1 x switching point and 2 x switching point 3. LED off: signal < switching point			
Electrical specifications					
Operating voltage	U _B	Power supply via control unit			
Conformity	- D				
Functional safety		ISO 13849-1			
Product standard		EN 61496-1 ; IEC 61496-2			
Laser safety		IEC 60825-1:2007			
Ambient conditions		120 00020 112007			
Ambient temperature		0 50 °C (32 122 °F)			
Storage temperature		-20 70 °C (-4 158 °F)			
Relative humidity		max. 95 %, not condensing			
Mechanical specifications		max. 35 %, not condensing			
· ·		IP67 according to EN 60529			
Degree of protection Connection		5-pin M12 x 1 connector with metal thread, 90° rotatable			
Material		o pin m 12 x 1 connector mai metal uneau, 30 Totalable			
Housing		Frame: nickel plated, die cast zinc, Laterals: glass-fiber reinforced plastic PC RAL 1021 (yellow)			
Optical face		Plastic pane			
Mass		per device 60 g			
Approvals and certificates					
CE conformity		CE			
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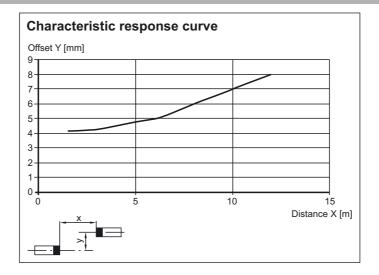
CCC approval

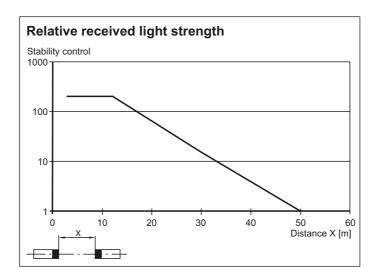
Approvals

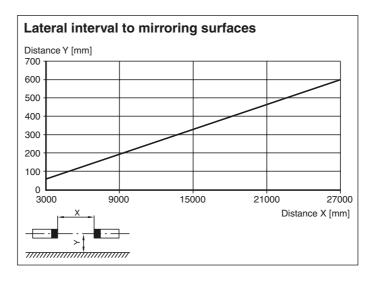
ΤÜV

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

Curves/Diagrams







Additional information

For much easier alignment even for lond distance applications, an additional red LED is located in the receivers optics:

- LED constantly illuminated: signal strength < switching level
- LED flashes:



signal strength is between 1-fold switching level and 2-fold switching level

• LED off:

signal strength ≥ 2-fold switching level (function reserve)