

Safety thru-beam sensor transmitter SLA12-LAS-T/124



- Sensing range 12 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 SB4-series control units (SafeBox)

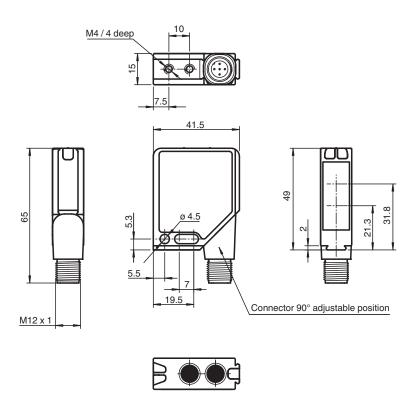
Safety thru-beam sensor with laser







Dimensions



Technical Data

System components		
Emitter	SLA12-LAS-T/124	
Receiver	SLA12-R/124	

Technical Data **General specifications** 0.2 ... 12 m Effective detection range Light source laser diode modulated visible red light Light type Laser nominal ratings LASER LIGHT, DO NOT STARE INTO BEAM Note Laser class Wave length 650 nm Beam divergence 1 mrad 35 µs Pulse length Repetition rate 200 Hz Target size static: 10 mm dynamic: 30 mm (at v = 1.6 m/s of the obstacle) LED red Alignment aid Opening angle < 5 ° Functional safety related parameters Safety Integrity Level (SIL) SIL 3 PL e Performance level (PL) Category Cat. 4 Mission Time (T_M) 20 a PFH_d 4.4 E-10 Type Indicators/operating means Operation indicator LED green Function indicator LED yellow: LED lit constantly: signal > 2 x switching point (function reserve) LED flashes: signal between 1 x switching point and 2 x switching point LED off: signal < switching point **Electrical specifications** Power supply via control unit Operating voltage U_B Protection class III, IEC 61140 Conformity Functional safety ISO 13849-1 Product standard EN 61496-1; IEC 61496-2 Laser safety IEC 60825-1:2007 Approvals and certificates CE conformity CF **UKCA** conformity UKCA **UL** approval TÜV SÜD TÜV approval **Ambient conditions** 0 ... 50 °C (32 ... 122 °F) Ambient temperature Storage temperature -20 ... 70 °C (-4 ... 158 °F) Relative humidity max. 95 %, not condensing Shock resistance 10 g, 16 ms; stationary applications only Vibration resistance 1 mm, 10 ... 55 Hz; stationary applications only Mechanical specifications IP67 according to EN 60529 Degree of protection Connection 5-pin M12 x 1 connector with metal thread, 90° rotatable Material Frame: nickel plated, die cast zinc, Housing Laterals: glass-fiber reinforced plastic PC RAL 1021 (yellow)

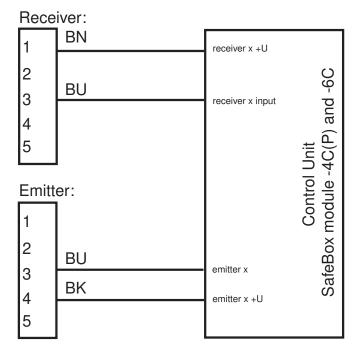
Optical face

Mass

Plastic pane

per device 60 g

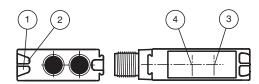
Connection



Connection Assignment

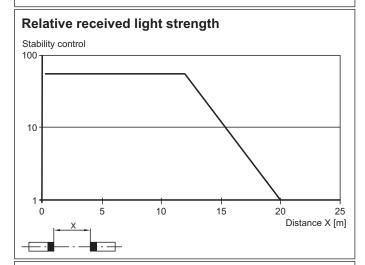


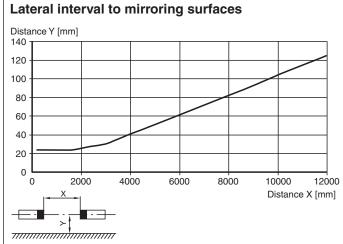
Assembly



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

5 PEPPERL+FUCHS





Safety Information

Laser Class 1 Information

The irradiation can lead to irritation especially in a dark environment. Do not point at people!

Maintenance and repairs should only be carried out by authorized service personnel!

Attach the device so that the warning is clearly visible and readable.

The warning accompanies the device and should be attached in immediate proximity to the device.

Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Accessories SLA-1-M Deviation mirror OMH-06 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 OMH-K02 dove tail mounting clamp V15-W-5M-PVC Female cordset single-ended M12 angled A-coded, 5-pin, PVC cable grey

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)