

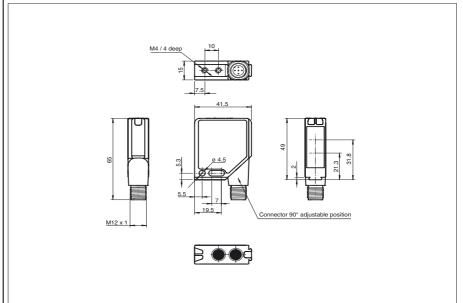








# **Dimensions**



# **Model Number**

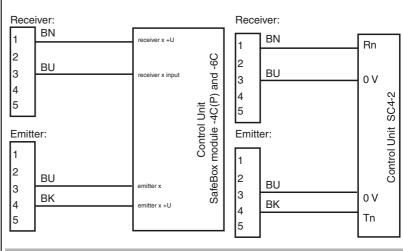
### SLA12-LAS/35/124

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

### **Features**

- · Detection 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, protection class IP67
- Operation on control units of series SB4 (SafeBox) and SC4-2

# **Electrical connection**



# **Accessories**

# SLA-1-M

Deviation mirror

#### **OMH-06**

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Date of issue: 2009-12-14

Release date: 2009-12-14 11:24

Mounting aid

# OMH-MLV12-HWG

Mounting aid

# OMH-MLV12-HWK

Mounting aid

# OMH-K01

Mounting aid

## OMH-K02

Mounting aid

# V15-W-5M-PVC

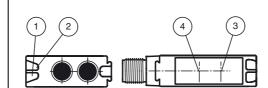
Cable connector

Additional accessories can be found in the Internet.

# **Pinout**



# Indicators/operating means



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

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### **Technical data**

General specifications	
Effective detection range	20

3 ... 30 m laser diode , 650 nm Light source red, modulated light, < 1 mW Light type

Approvals Tests IEC/EN 61496

Safety type according to IEC/EN 61496

PL e (ISO 13849-1) Performance level (PL)

Marking CE, TÜV

static: 10 mm dynamic: 30 mm (at v = 1.6 m/s of the obstacle) Obstacle size

Laser class 1 acc. to IEC 60825-1

Alignment aid LED red Angle of divergence < 5

#### Functional safety related parameters

Safety Integrity Level (SIL) SIL 3 Performance level (PL) PL e Category Cat. 4 20 a Mission Time (T<sub>M</sub>)  $PFH_d$ 4.4 E-10

### Indicators/operating means

Operating display LED green Function display LED yellow:

1. LED lits 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  $U_{\mathsf{B}}$ Power supply via control unit

### **Ambient conditions**

Ambient temperature 0 ... 50 °C (273 ... 323 K) Storage temperature -20 ... 70 °C (253 ... 343 K) max. 95 %, not condensing Relative humidity

### Mechanical specifications

Protection degree IP67 according to EN 60529

Connection connector, 5-pin with metal thread M12 x 1, may be rotated 90°

Material

Housing Frame: die-cast zinc, nickel-plated

Laterals: plastic PC, glass-fiber reinforced RAL 1021 (yellow)

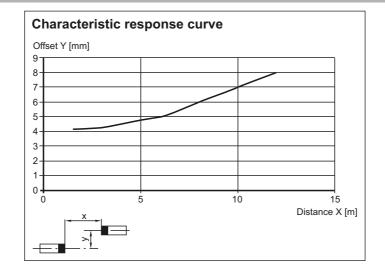
Optical face Plastic pane per device 60 g

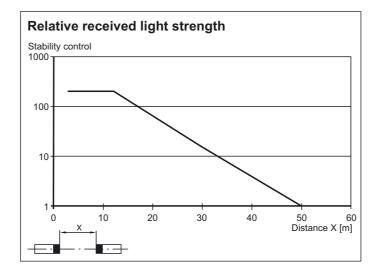
### General information

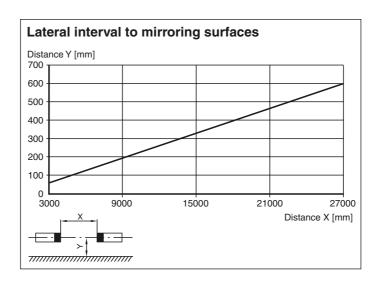
System components

Emitter SLA12-LAS-T/35/124 Receiver SLA12-R/124

# **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)

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