







Model Number

SLA29/35/105/106

Safety thru-beam sensor with 5-pin, M12 connector

Features

- Detection range up to 65 m
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Extended temperature range up to -35 °C with heated front panel
- Red transmission light
- Integrated alignment aid
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Operation on control units of series SB4 (SafeBox) and SC4-2

Accessories

OMH-05

Mounting aid

OMH-21

Mounting aid

OMH-22

Mounting aid

OMH-MLV11-K

Mounting aid

BA SLA28

Mounting aid Safety

MS SLP/SLA28

Mounting aid Safety

MS SLPCM

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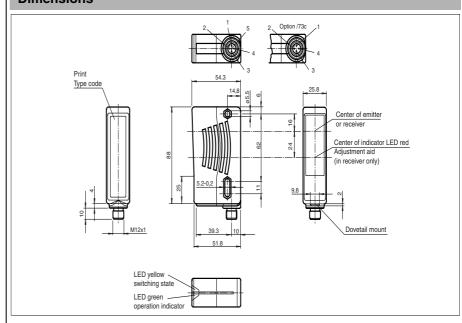
Mounting aid Safety

SLA-1-M

Additional accessories can be found in the Internet.

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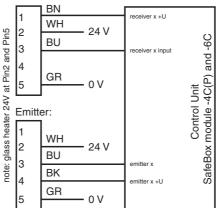
Dimensions



Electrical connection

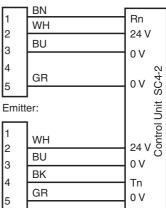
Design with connector (Option /106)

Receiver:



Design with connector (Option /106)

Receiver:



Pinout



Technical data

General specifications

Effective detection range 6 ... 65 m 85 m Threshold detection range LED Light source

Light type red, modulated light

Approvals TÜV; cULus (in operation with contol unit SafeBox SB4)

Tests IEC/EN 61496

Safety type according to IEC/EN 61496 Marking CE

Obstacle size static: 30 mm

dynamic: 40 mm (at v = 1.6 m/s of the obstacle)

Alignment aid LED red in receiver

Angle of divergence < 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 0.44 E-9

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_B Power supply via control unit

Ambient conditions

Ambient temperature -35 ... 55 °C (238 ... 328 K) with heated optical face, fixed voltage 24 V DC \pm 20 %/50 mA

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

Mechanical specifications

IP67 according to EN 60529 Protection degree Connection M12 connector, 5 pin

Material

Housing ABS plastic, RLA 1021 (yellow) painted

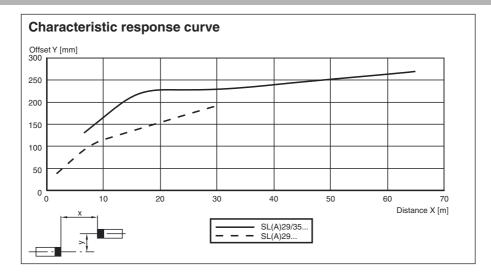
Optical face Plastic pane Mass per device 70 g

General information

System components

SLA29-T/35/105/106 Emitter Receiver SLA29-R/35/105/106

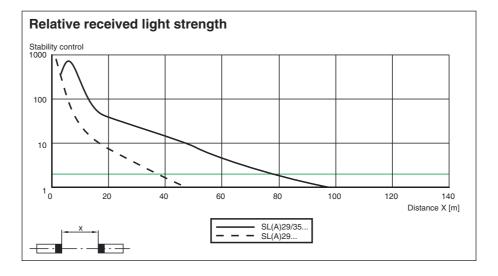
Curves/Diagrams

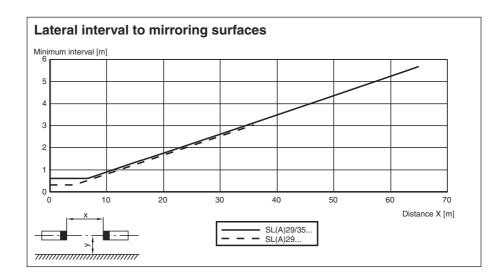


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Additional information

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

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- 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)

System accessories

Control units

SC4-2

SB4 (SafeBox)

Cable sockets

Option /73c:

straight: V1-G-2M-PVC

V1-G-5M-PVC

v1-G-10M-PVC angled: V1-W-2M-PVC

V1-W-5M-PVC V1-W-10M-PVC

Option /105:

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angled:

V15-G-2M-PVC V15-G-5M-PVC

V15-G-10M-PVC V15-W-2M-PVC

V15-W-5M-PVC

V15-W-10M-PVC

Option /116:

Mounting aids

OMH-21

OMH-22

OMH-05

OMH-MLV11-K

Further accessories

Laser alignment aid

BA SLA28

Muting Set MS SLP/SLA28

Redirection mirror

SLA-1-M

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