







Model Number

SLA29/35/105/106

with 5-pin, M12 connector

Features

- Sensing 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 SB4 (SafeBox)

Accessories

OMH-05

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

OMH-21

Mounting bracket

OMH-22

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2017-12-05 14:45

Release date:

Mounting bracket

OMH-MLV11-K

dove tail mounting clamp

MS SLP/SLA28

Fixing plate

MS SLPCM

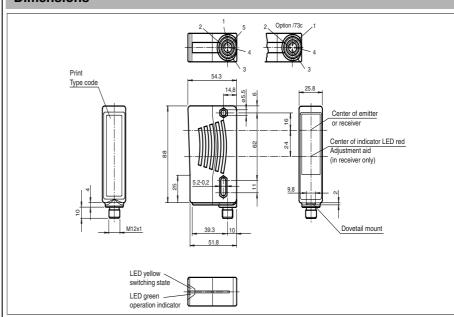
Mounting bracket

SLA-1-M

Deviation mirror

BASLA25Additional accessories can be found in the Internet.

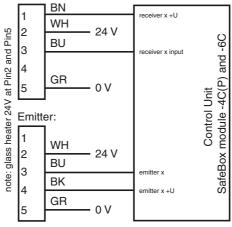
Dimensions



Electrical connection

Design with connector (Option /106)

Receiver:



Pinout



Technical data System components

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

General specifications

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

Light type modulated visible red light

static: 30 mm Target size

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

Alignment aid LED red in receiver

< 5 Angle of divergence

Functional safety related parameters

Safety Integrity Level (SIL) SIL 3 Performance level (PL) PL e Category Cat. 4 Mission Time (T_M) 20 a PFH_d 0.44 E-9 Type

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 UB Power supply via control unit

Conformity

Functional safety ISO 13849-1

Product standard EN 61496-1; IEC 61496-2

Ambient conditions

Ambient temperature -35 ... 55 °C (-31 ... 131 °F) with heated optical face, fixed voltage 24 V DC \pm 20 %/50 mA

-20 ... 70 °C (-4 ... 158 °F) Storage temperature max. 95 %, not condensing Relative humidity

Mechanical specifications

Degree of protection IP67 according to EN 60529 Connection M12 connector, 5 pin

Material

Housing ABS plastic, RLA 1021 (yellow) painted

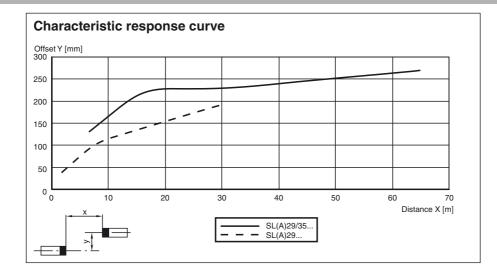
Optical face Plastic pane per device 70 g

Approvals and certificates

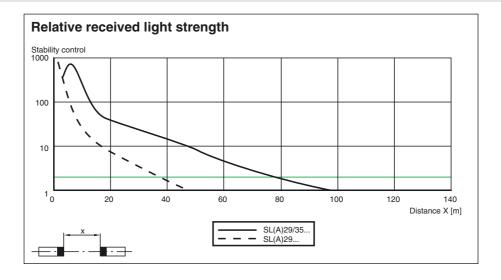
CE conformity

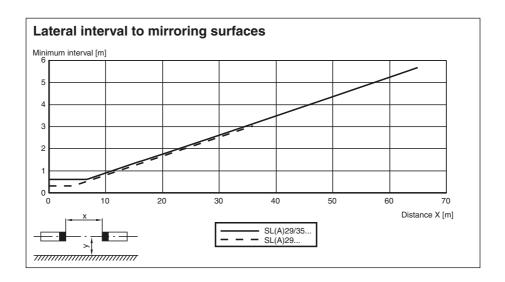
CCC approval CCC approval / marking not required for products rated ≤36 V Approvals TÜV; cULus (in operation with contol unit SafeBox SB4)

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:

- 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

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SB4 (SafeBox)

Cable sockets

Option /73c:

straight: V1-G-2M-PVC

V1-G-5M-PVC

V1-G-10M-PVC

V1-W-2M-PVC V1-W-5M-PVC

V1-W-10M-PVC

Option /105:

angled:

angled:

V15-G-2M-PVC

V15-G-5M-PVC V15-G-10M-PVC

V15-G-10M-PVC

V15-W-5M-PVC V15-W-10M-PVC

Option /116: no

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

FEPPERL+FUCHS