

CE

Model Number

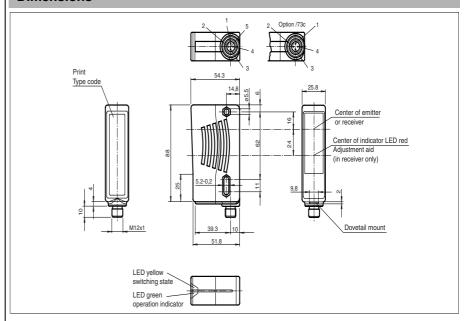
SL29/105/106

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

Features

- Detection range up to 30 m
- Test input (Type 2 according to IEC/EN 61496-1)
- Red transmission light
- Integrated alignment aid
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Sturdy housing
- Protection degree IP67
- Extended temperature range up to -35 °C with heated front panel
- Operation on control units of series SC2-2

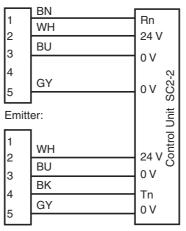
Dimensions



Electrical connection

Design with connector (Option /106)

Receiver:



www.pepperl-fuchs.com

Technical data

General	specifications

Effective detection range 0.2 ... 30 m
Threshold detection range 40 m
Light source LED

Light type red, modulated light

Approvals TÜV
Tests IEC/EN 61496

Safety type according to IEC/EN 61496 2
Marking CE

Obstacle size static: 30 mm

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

Alignment aid LED red
Angle of divergence < 10 °

Functional safety related parameters

 Safety Integrity Level (SIL)
 SIL 2

 Performance level (PL)
 PL d

 Category
 Cat. 2

 Mission Time (T_M)
 20 a

 PFH_d
 1 E-7

Indicators/operating means

Operating display LED green Function display LED yellow:

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 ± 20 %/50 mA

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

Mechanical specifications

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

Material

Housing Plastic ABS, front part black, back part yellow (RAL1021)

Optical face Plastic pane
Mass per device 70 g

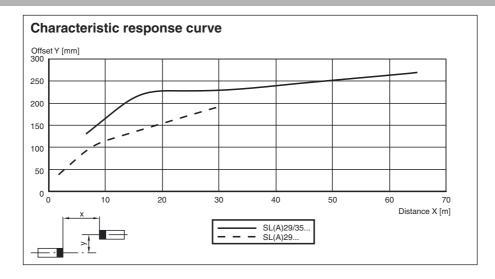
General information

System components

 Emitter
 SL29-T/105/106

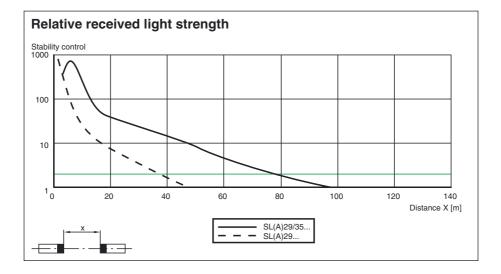
 Receiver
 SL29-R/105/106

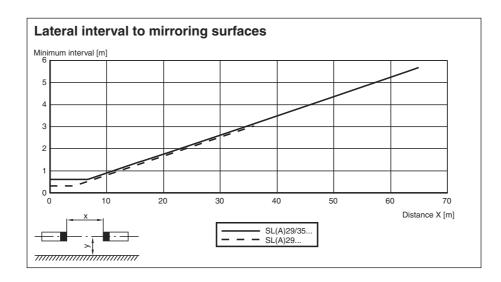
Curves/Diagrams



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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:

- 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

SC2-2

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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V15-G-2M-PVC

V15-G-5M-PVC

V15-G-10M-PVC

angled: 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

Redirection mirror

SLA-1-M

FPEPPERL+FUCHS

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