Dimensions

Model Number

SLA29/73c

Safety thru-beam sensor
with 4-pin, M12 connector

Features

- Detection range up to 30 m
- Self-monitoring (type 4 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
- Waterproof, protection class IP67
- 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
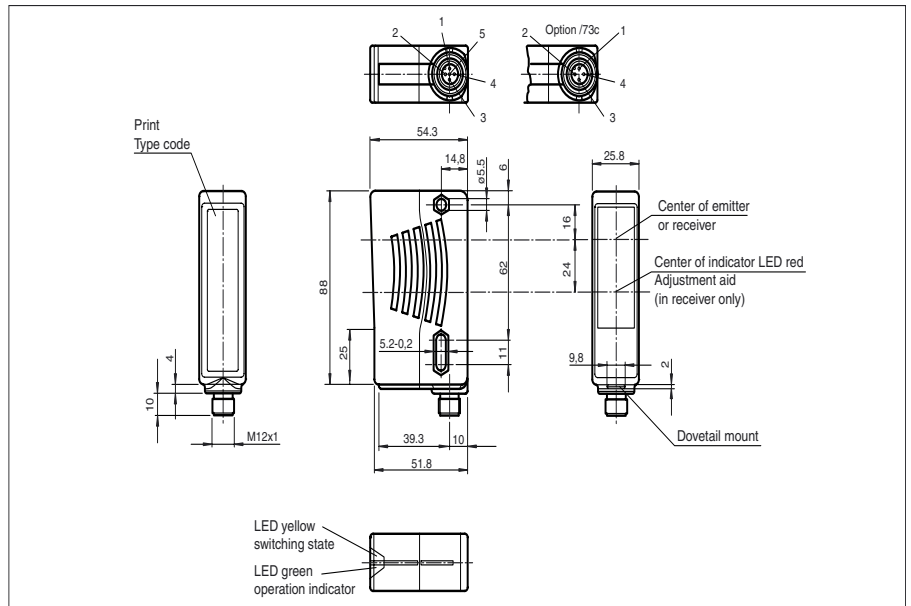
MS SLP/SLA28
Mounting aid Safety

MS SLPCM
Mounting aid Safety
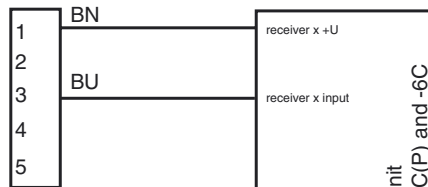
SLA-1-M

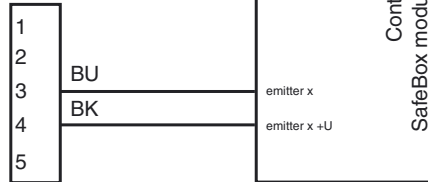Additional accessories can be found in the Internet.

Electrical connection

Design with connector

Receiver:

Emitter:

Design with connector

Receiver:

Emitter:

Pinout

Subject to modifications without notice

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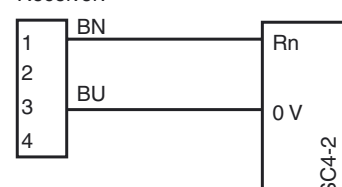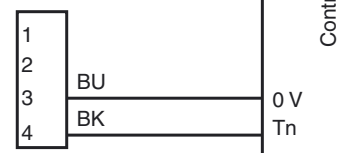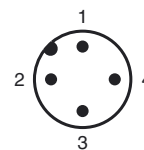
Technical data

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	4
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
Performance level (PL)	PL e
Category	Cat. 4
Mission Time (T_M)	20 a
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_B	Power supply via control unit

Ambient conditions

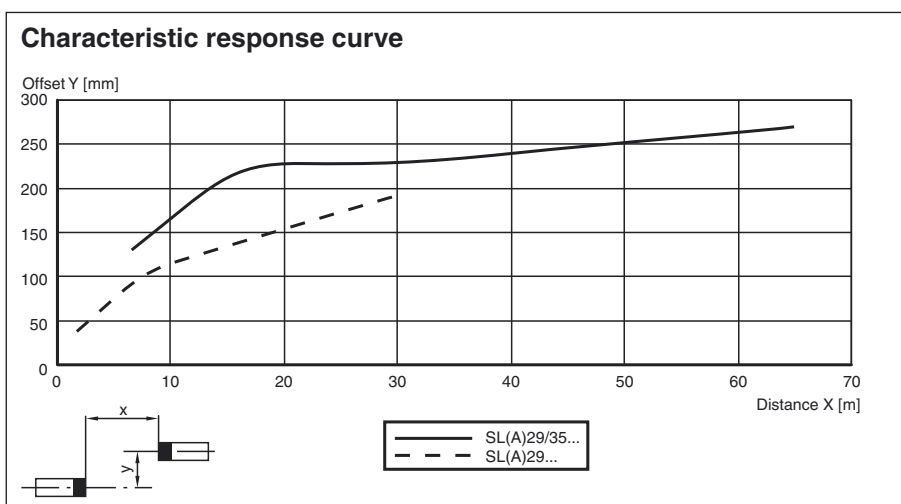|	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 70 °C (253 ... 343 K)
Relative humidity	max. 95 %, not condensing

Mechanical specifications

Protection degree	IP67 according to EN 60529
Connection	M12 connector, 4-pin
Material	
Housing	ABS plastic, RLA 1021 (yellow) painted
Optical face	Plastic pane
Mass	per device 70 g

General information

System components	
Emitter	SLA29-T/73c
Receiver	SLA29-R/73c

Curves/Diagrams

Characteristic response curve

Offset Y [mm] vs Distance X [m]

Legend:
SL(A)29/35...
SL(A)29...

Relative received light strength

Stability control

Legend:
- SL(A)29/35...
- SL(A)29...

Lateral interval to mirroring surfaces

Minimum interval [m]

Legend:
- SL(A)29/35...
- SL(A)29...
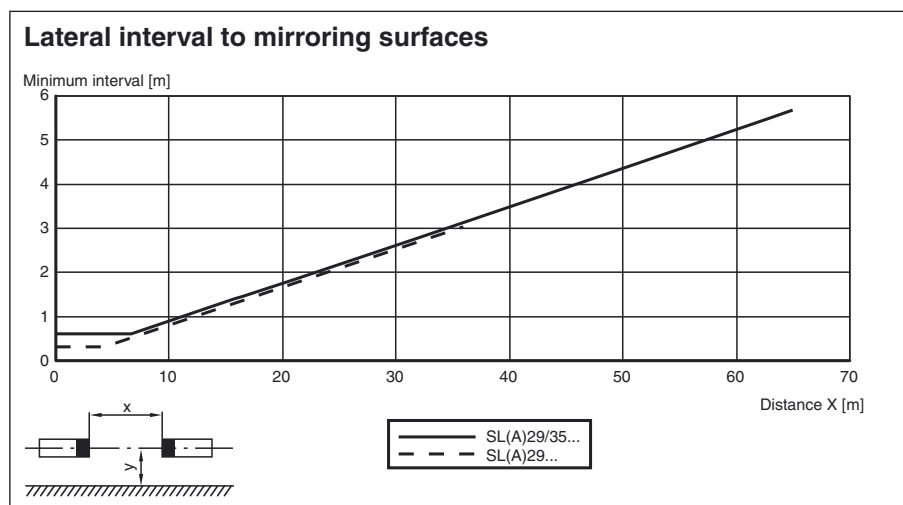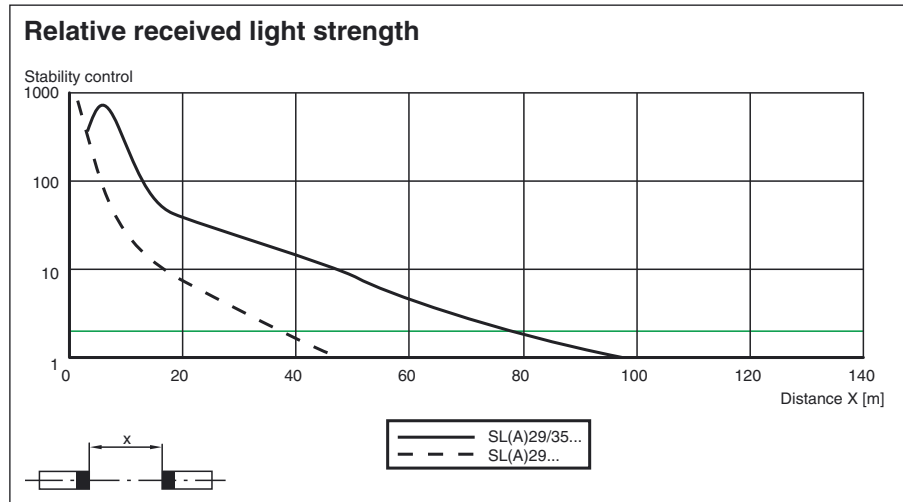
Additional information

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
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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straight: 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:   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

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