Dimensions

Emitter | Receiver | SLA5 (fixed cable)

70
27
20
14
30
8.5
6

Display LED

Emitter | Receiver | SLA5/92 (connector M12)
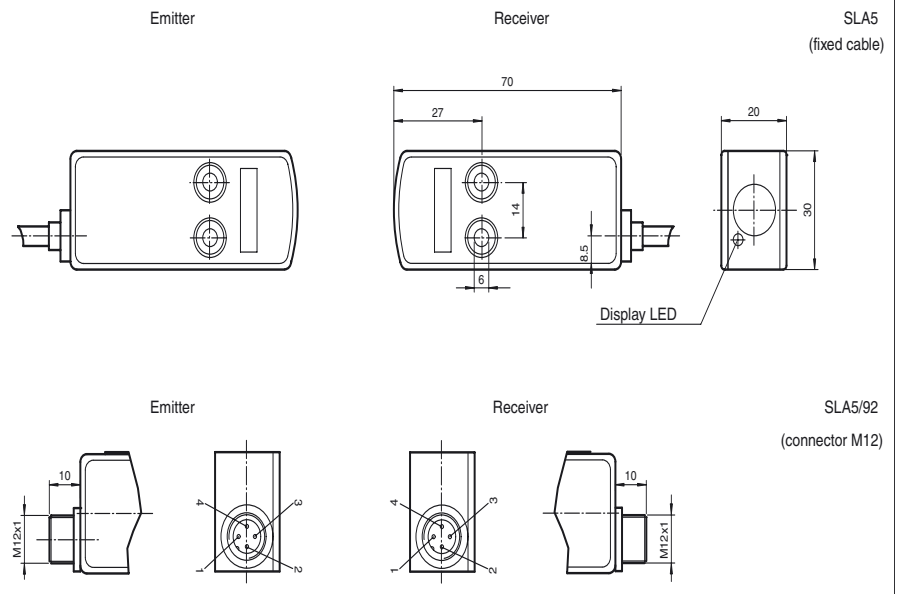
10
M12x1
10
M12x1

Model Number

SLA5

with 2 m fixed cable

Features

- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Red transmission light
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Sturdy housing
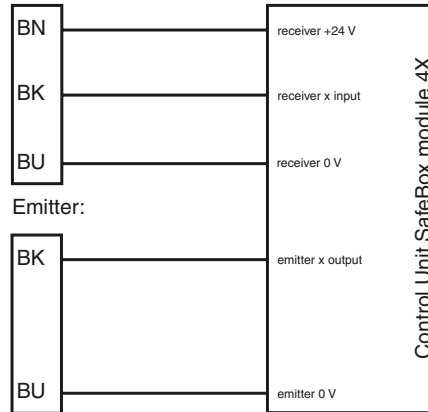- Operation on control units of SB4 (SafeBox)

Electrical connection

Design with fixed cable

Receiver:

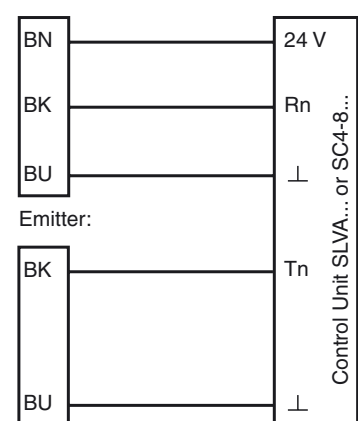| BN | | receiver +24 V |
| BK | | receiver x input |
| BU | | receiver 0 V |

Emitter:

| BK | | emitter x output |
| BU | | emitter 0 V |

Control Unit SafeBox module 4X

Design with fixed cable

Receiver:

BN		24 V
BK		Rn
BU		⊥

Emitter:

| BK | | Tn |
| BU | | ⊥ |

Control Unit SLVA… or SC4-8…

Additional accessories can be found in the Internet.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical data

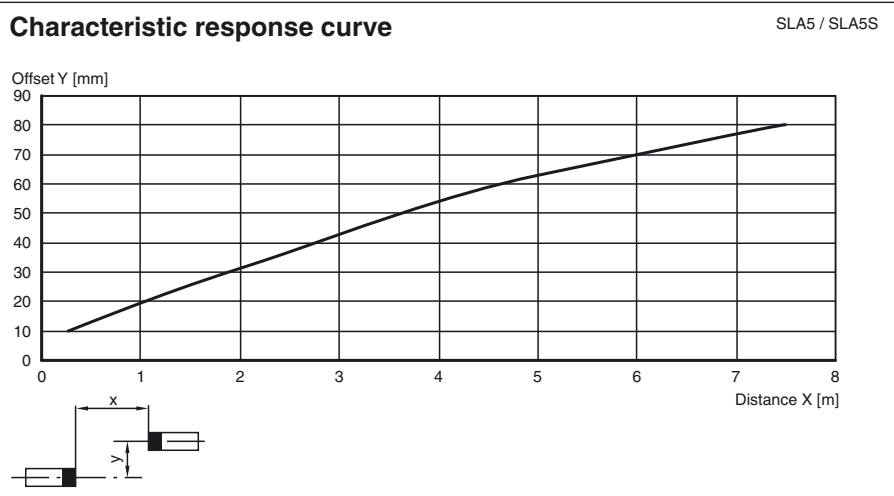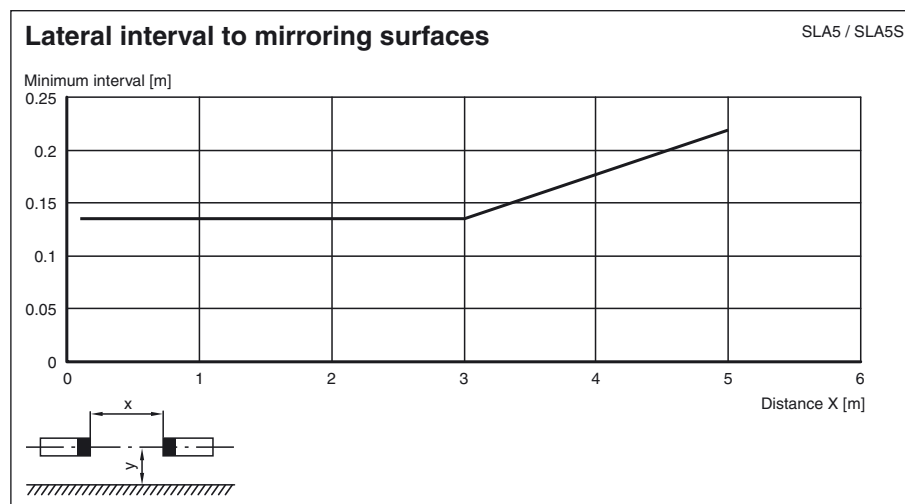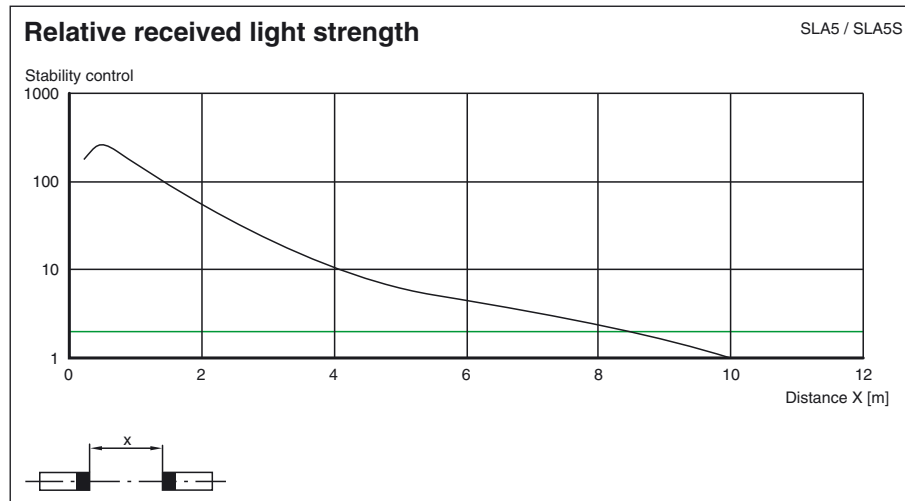| System components	
Emitter	SLA5-T
Receiver	SLA5-R
General specifications	
Effective detection range	0 ... 5 m
Number of protective field beams	1
Light source	LED
Light type	modulated visible red light
Tests	IEC/EN 61496
Safety type according to IEC/EN 61496	4
Marking	CE
Target size	static: 10 mm dynamic: 30 mm (at v = 1.6 m/s of the obstacle)
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
Type	4
Indicators/operating means	
Function indicator	LED yellow/green in receiver: off: Interruption yellow: transmission green: reception with sufficient stability control
Pre-fault indicator	LED functional display yellow
Electrical specifications	
Operating voltage U_B	Power supply via control unit
Conformity	
Functional safety	ISO 13849-1
Product standard	EN 61496-1 ; IEC 61496-2
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)
Relative humidity	max. 95 %, not condensing
Mechanical specifications	
Degree of protection	IP65
Connection	2 m, 0.25 mm^2 fixed cable
Material	
Housing	Plastic, PC, RAL 1021 (yellow)
Optical face	plastic lens
Mass	Per 95 g
Approvals and certificates	
CE conformity	CE
CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	TÜV

Curves/Diagrams

Characteristic response curve

SLA5 / SLA5S

Offset Y [mm] vs Distance X [m]

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Relative received light strength

SLA5 / SLA5S

Stability control

Distance X [m]

Lateral interval to mirroring surfaces

SLA5 / SLA5S

Minimum interval [m]

Distance X [m]

System accessories

Control units

SB4 (SafeBox)

Cable sockets (only for option /92)

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

Further accessories

Redirection mirror
SLA-1-M

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