



Safety thru-beam sensor

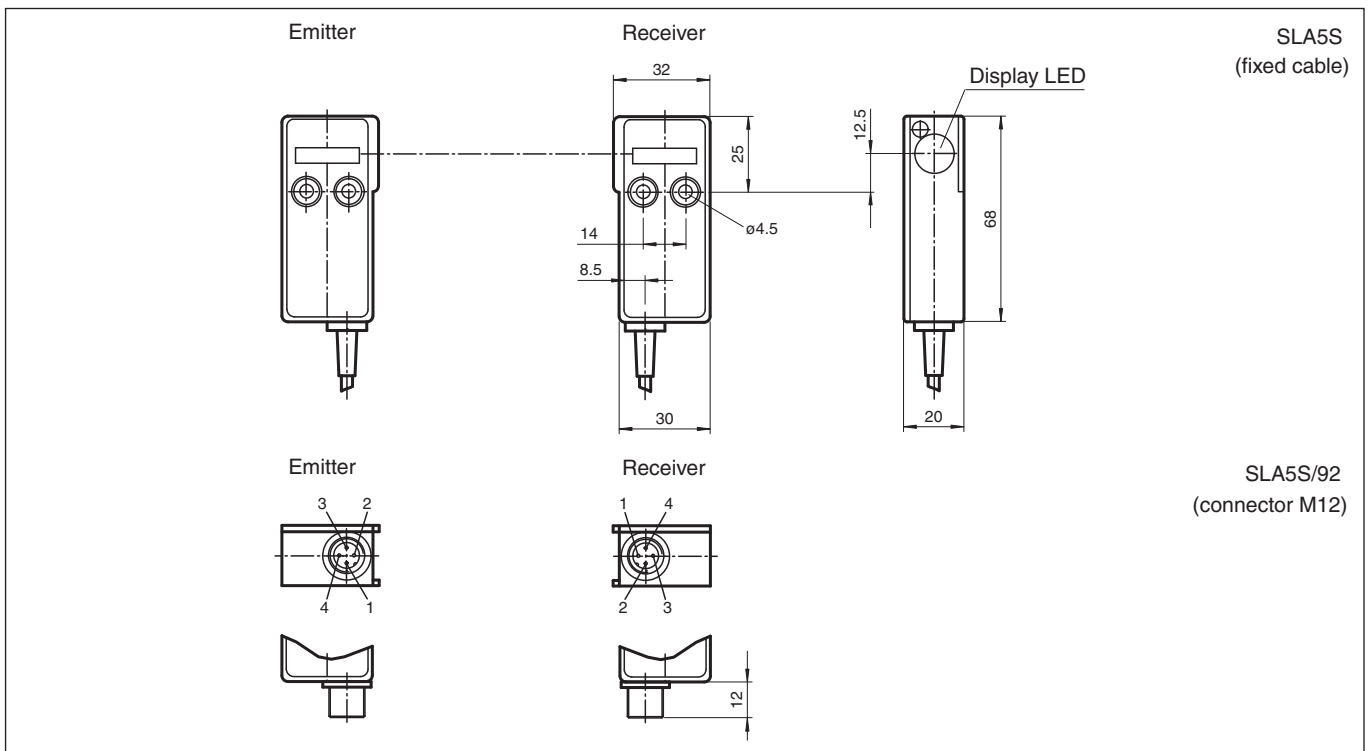
SLA5S



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



Dimensions



Technical Data

System components	
Emitter	SLA5S-T
Receiver	SLA5S-R
General specifications	
Effective detection range	0 ... 5 m
Number of protective field beams	1

Release date: 2020-11-09 Date of issue: 2020-11-09 Filename: 109712_eng.pdf

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

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Technical Data

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
Approvals and certificates		
CE conformity		CE
CCC approval		CCC approval / marking not required for products rated ≤36 V
Approvals		TÜV
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

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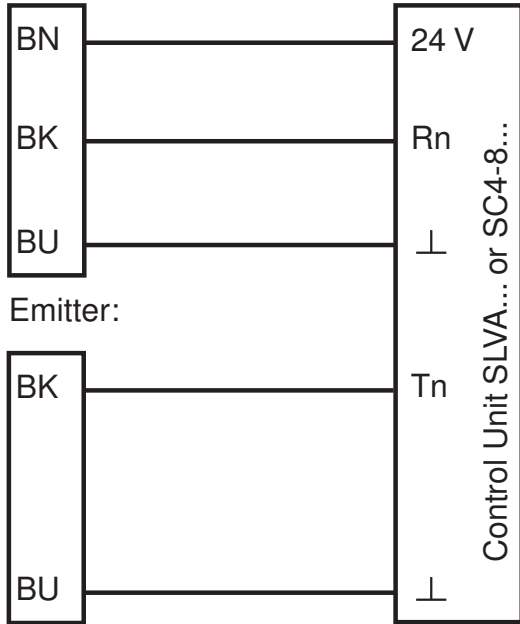
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Connection

Design with fixed cable

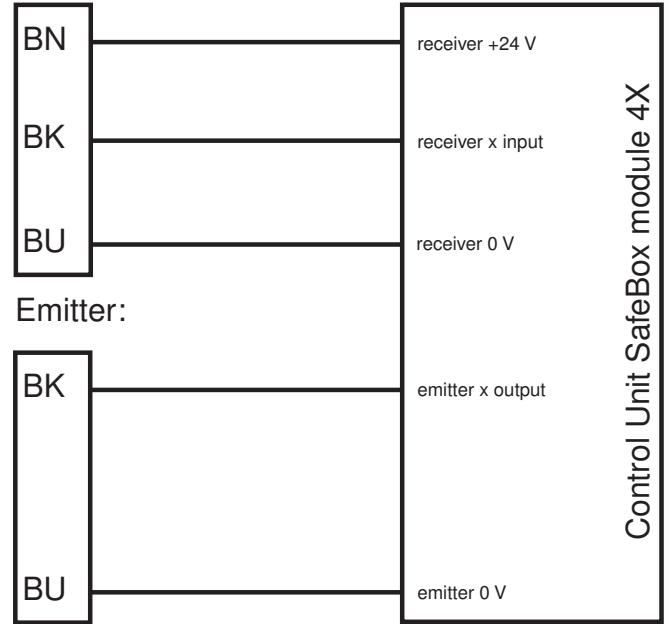
Receiver:



Emitter:

Design with fixed cable

Receiver:

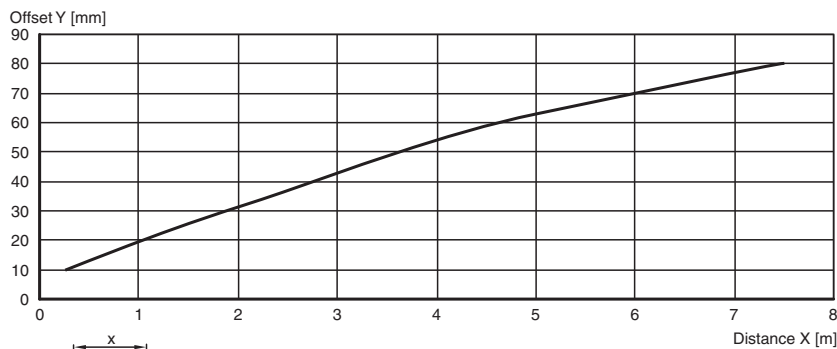


Emitter:

Characteristic Curve

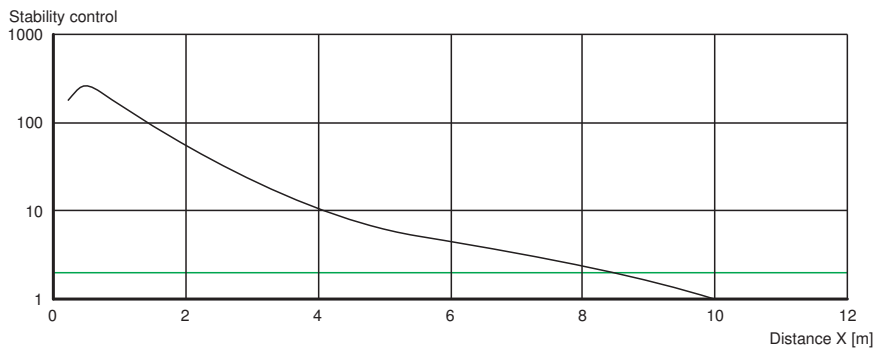
Characteristic response curve

SLA5 / SLA5S



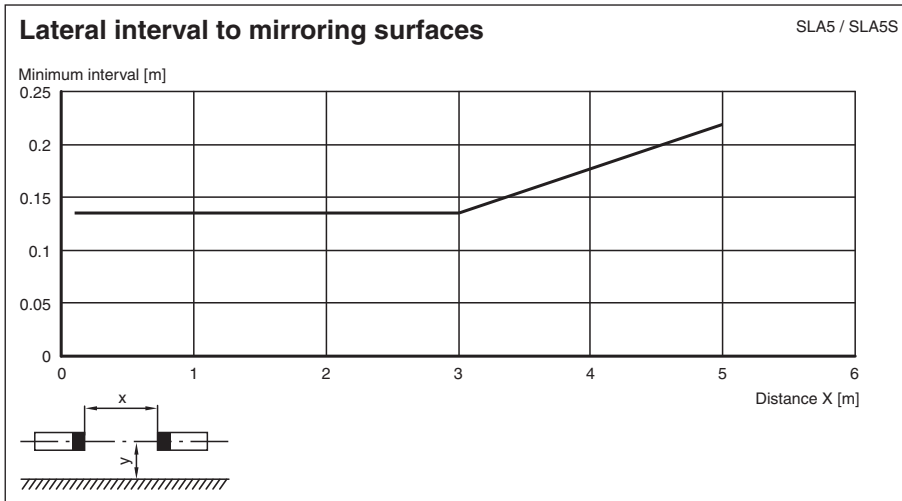
Relative received light strength

SLA5 / SLA5S




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Accessories

	SLA-1-M	Deviation mirror
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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