



Model Number

SLA5S

Safety thru-beam sensor
with 2 m fixed cable

Features

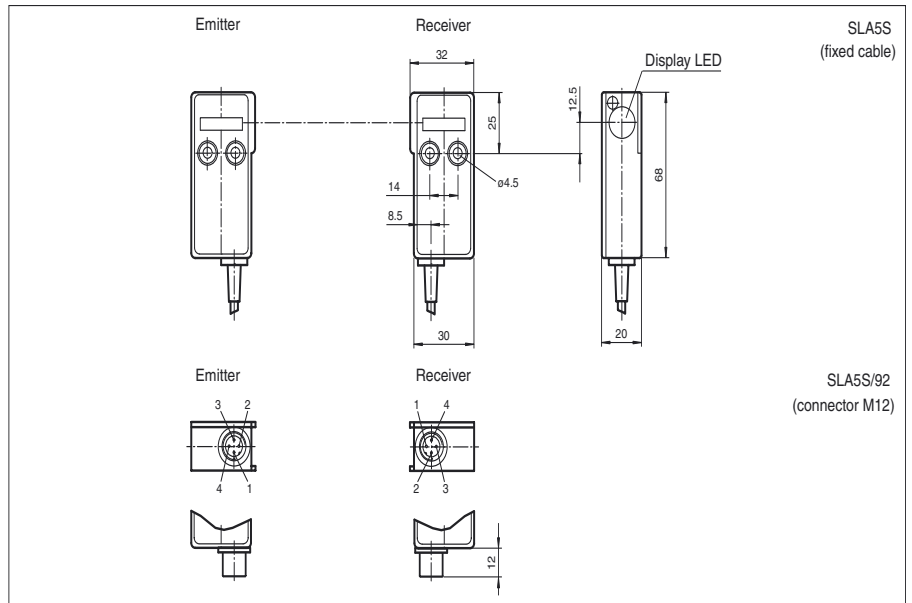
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Optical-system lateral
- Red transmission light
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Sturdy housing
- Operation on control units of SB4 (SafeBox)

Accessories

SLA-1-M

Deviation mirror

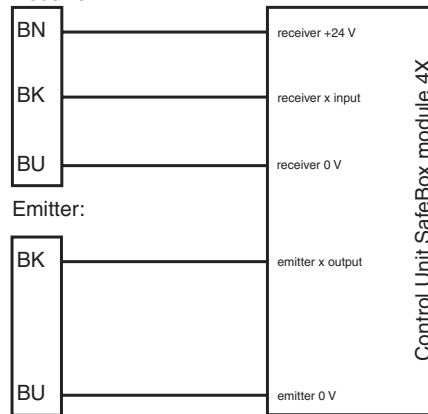
Dimensions



Electrical connection

Design with fixed cable

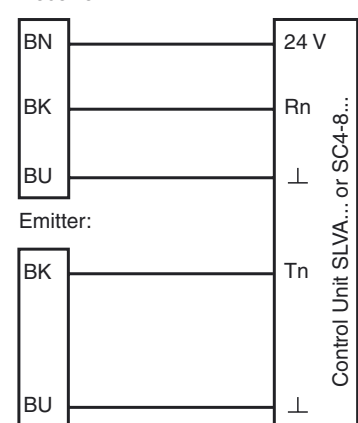
Receiver:



Emitter:

Design with fixed cable

Receiver:



Emitter:

Technical data

General specifications

Effective detection range	0 ... 5 m
Number of protective field beams	1
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: 10 mm dynamic: 30 mm (at $v = 1.6$ m/s of the obstacle)
Angle of divergence	$< 5^\circ$

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	$4.4 \text{ E-}10$

Indicators/operating means

Function display	LED yellow/green in receiver: off: Interruption yellow: transmission green: reception with sufficient stability control
Pre-fault indication	LED functional display yellow

Electrical specifications

Operating voltage	U_B	Power supply via control unit
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Ambient conditions

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

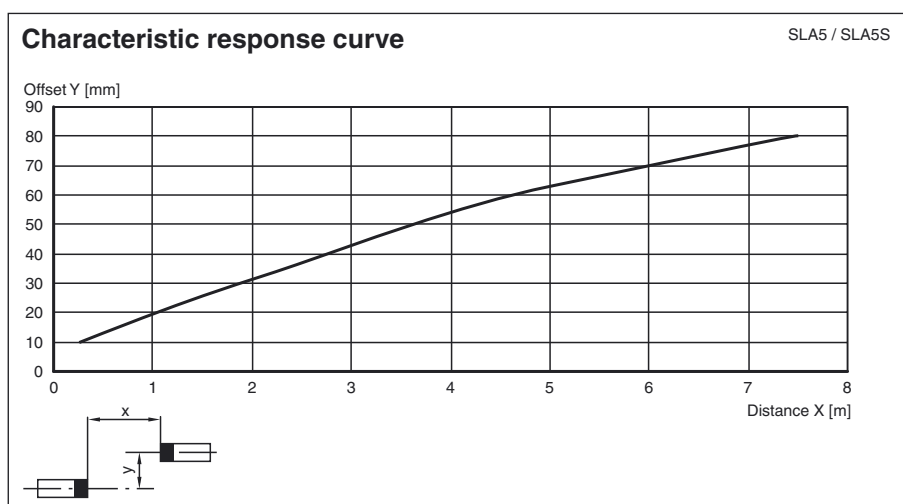
Mechanical specifications

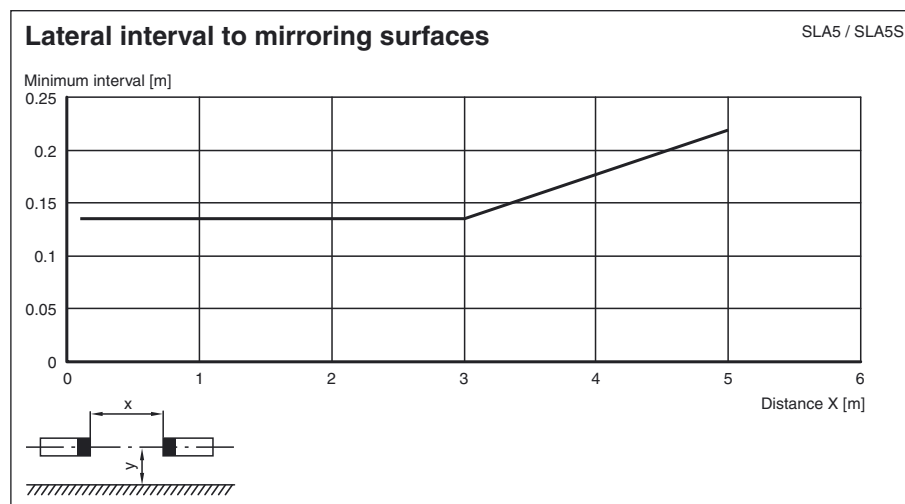
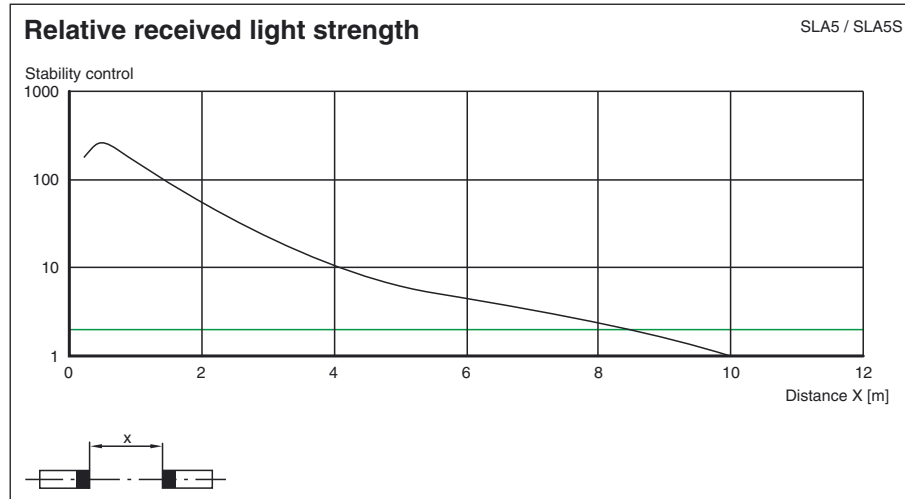
Protection degree	IP65
Connection	fixed cable 2 m; 0.25 mm ²
Material	
Housing	ABS plastic, RLA 1021 (yellow) painted
Optical face	Plastic lens
Mass	Per 95 g

General information

System components	
Emitter	SLA5S-T
Receiver	SLA5S-R

Curves/Diagrams





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