



Model Number

SLA5S/92

with 4-pin, M12 connector

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)

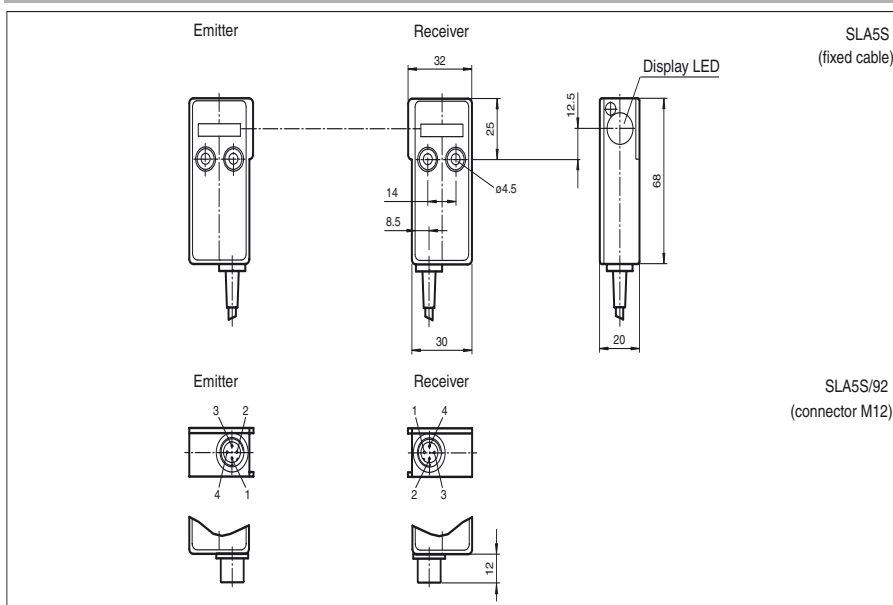
Accessories

SLA-1-M

Deviation mirror

Additional accessories can be found in the Internet.

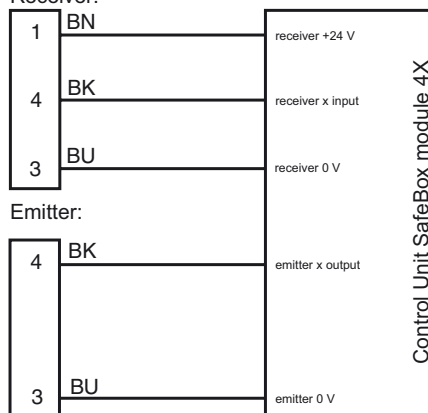
Dimensions



Electrical connection

Design with connector plug

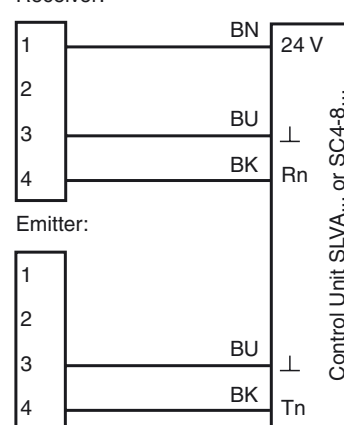
Receiver:



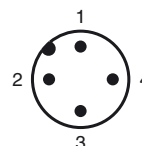
Emitter:

Design with connector plug

Receiver:



Pinout



Technical data

System components

Emitter	SLA5S-T/92
Receiver	SLA5S-R/92

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	$< 5^\circ$

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 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

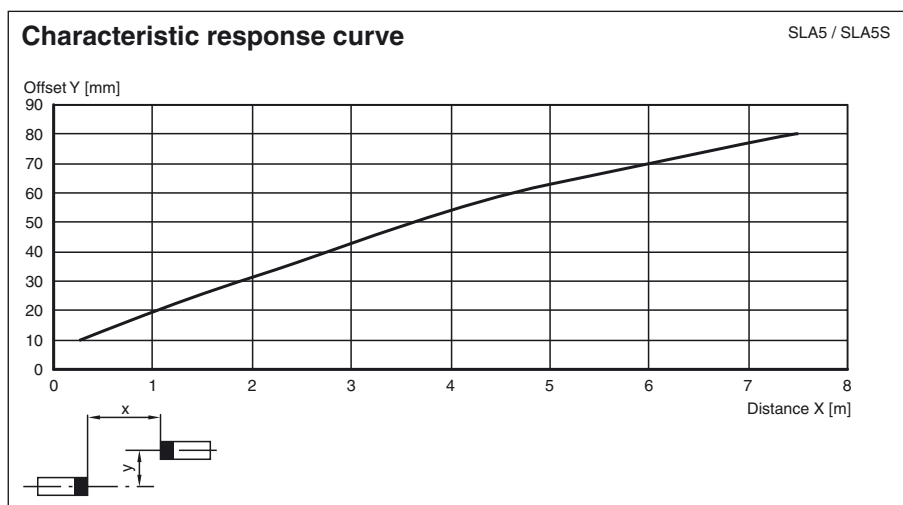
Mechanical specifications

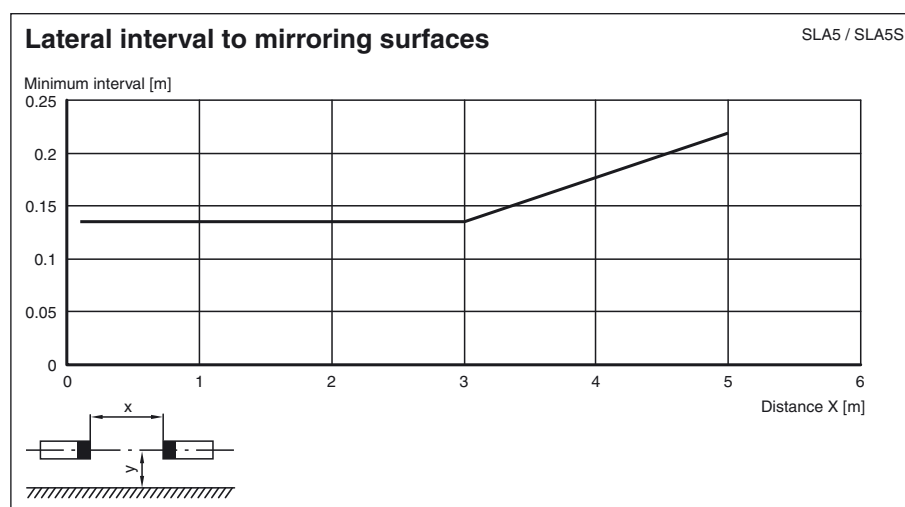
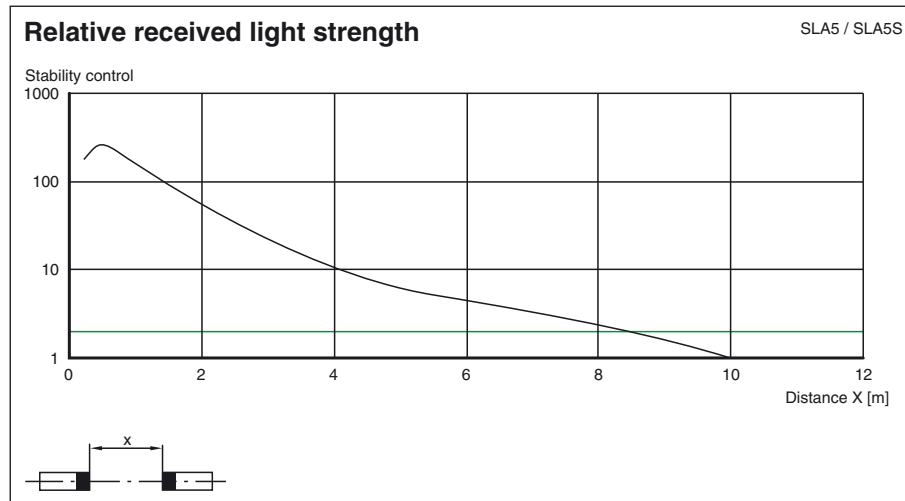
Degree of protection	IP65
Connection	M12 connector, 4-pin
Material	
Housing	Plastic, PC, RAL 1021 (yellow)
Optical face	plastic lens
Mass	Per 95 g

Approvals and certificates

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

Curves/Diagrams





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