



## Model Number

**SLA5S/92**

with 4-pin, M12 connector

## Features

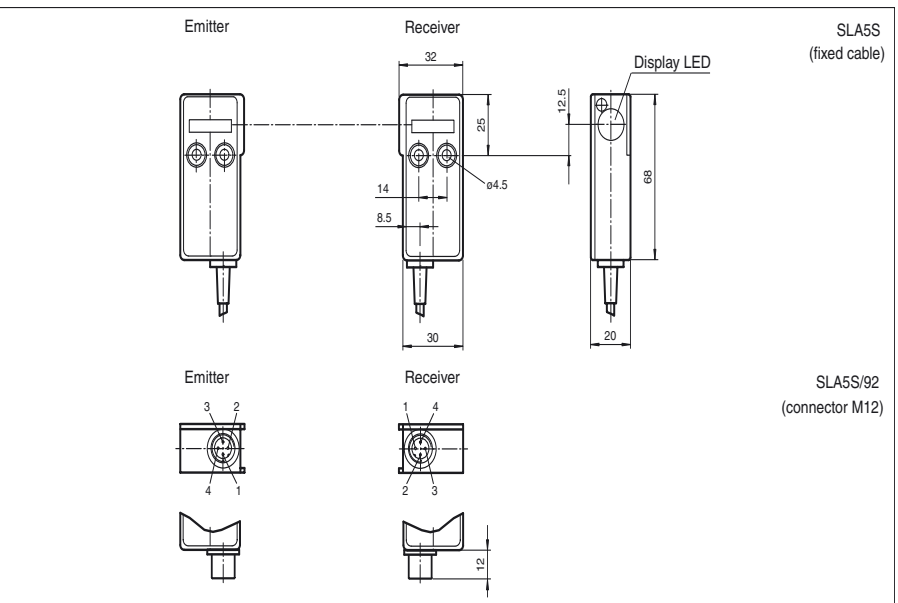
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Optical-system lateral
- Red transmission light
- Clearly visible LED functional display and pre-fault indicator on the receiver
- Sturdy housing
- Operation on control units of SB4 (SafeBox)

## Accessories

**SLA-1-M**

Deviation mirror

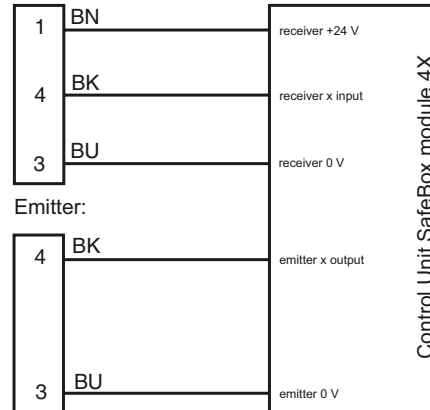
## Dimensions



## Electrical connection

Design with connector plug

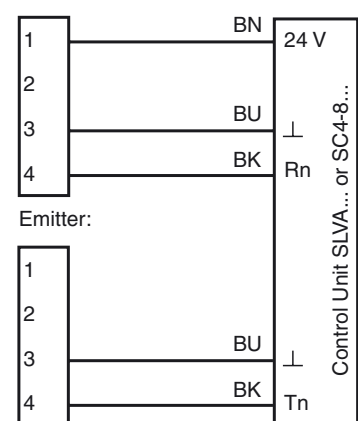
Receiver:



Emitter:

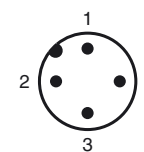
Design with connector plug

Receiver:



Emitter:

## 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:<br>off: Interruption<br>yellow: transmission<br>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     |

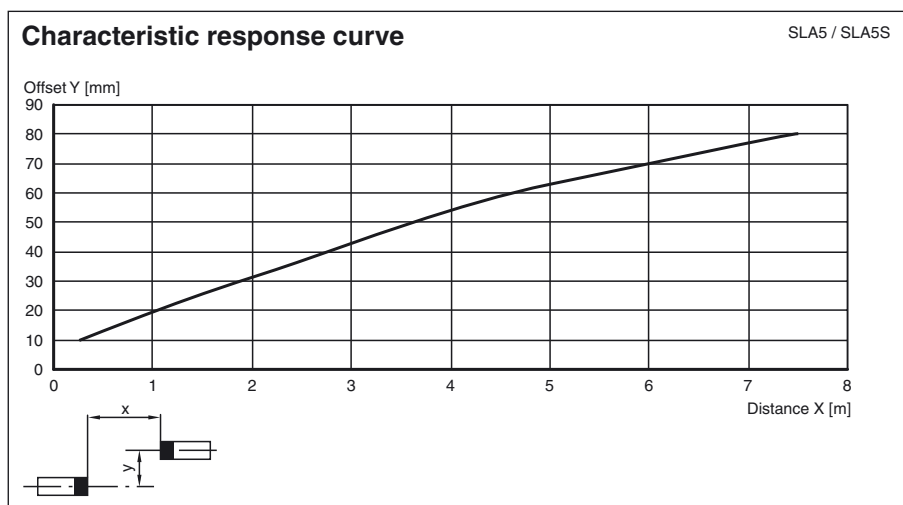
### Mechanical specifications

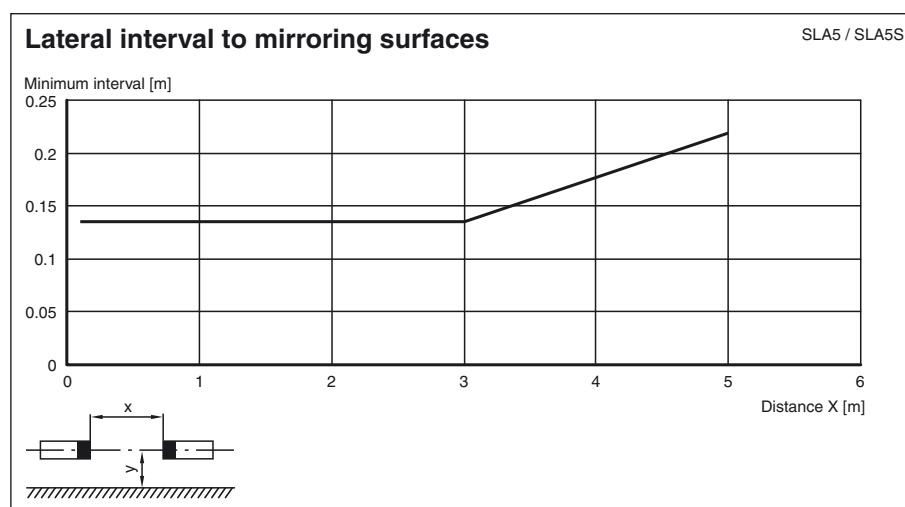
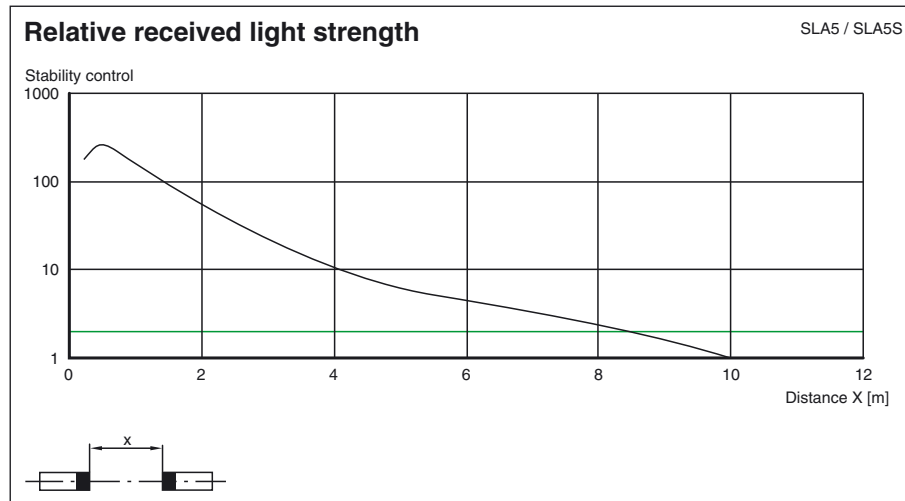
|                      |                                |
|----------------------|--------------------------------|
| Degree of protection | IP65                           |
| Connection           | M12 connector, 4-pin           |
| Material             |                                |
| Housing              | 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 $\leq 36$ 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