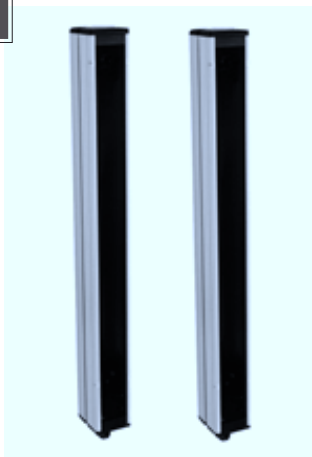




## Model Number

**SLP10-3**

Safety light grid

## Features

- Sensing range up to 10 m
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- 3-radial design
- Beam spacing 400 mm
- Red transmission light
- Integrated function display
- Pre-fault indication
- Operation on control units of SB4 (SafeBox)

## Accessories

### SLP-X-M

Deviation mirror for SLP

### MS SLP

Mounting bracket for Light grid

### PG SLP-X

Protective glass panes for SLP series

### PG HOLDER SLP

Holders for SLP protective glass panes

### PA SLP/SLC

Profile alignment aid

### BA SLP

laser alignment aid for safety light grids series SLP

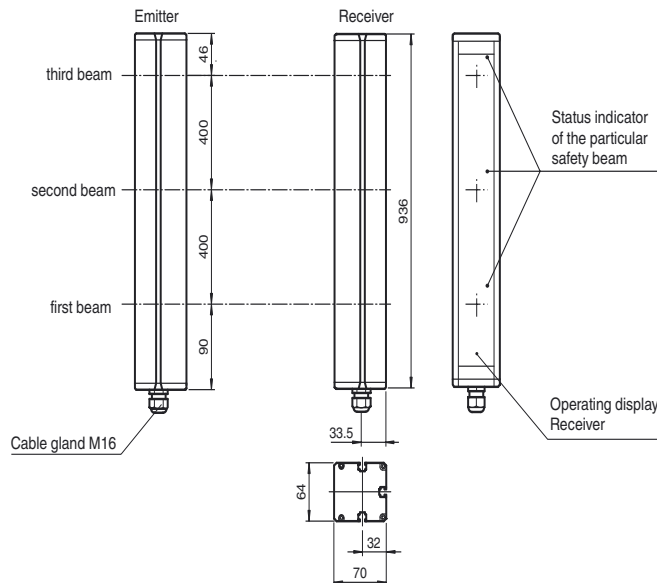
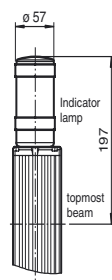
### UC SLP/SLC

Floor stand for all series SLP/SLC devices

Additional accessories can be found in the Internet.

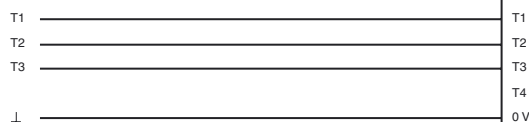
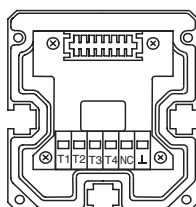
## Dimensions

Option -L with indicator lamp  
(in receiver only)

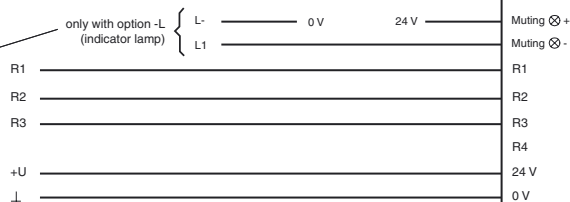
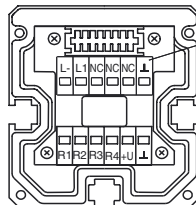


## Electrical connection

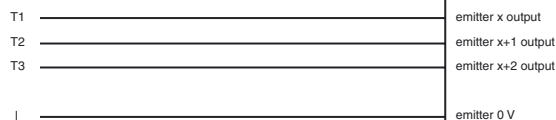
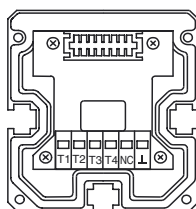
### Emitter SLP



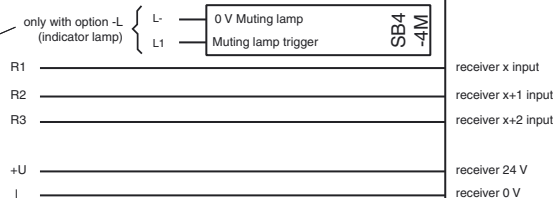
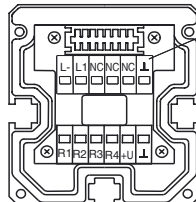
### Receiver SLP (-L)



### Emitter SLP



### Receiver SLP (-L)



## Technical data

### General specifications

|                                       |                                                                    |
|---------------------------------------|--------------------------------------------------------------------|
| Effective detection range             | 0.2 ... 10 m                                                       |
| Light source                          | LED                                                                |
| Light type                            | modulated visible red light                                        |
| Approvals                             | TÜV                                                                |
| Tests                                 | IEC/EN 61496                                                       |
| Safety type according to IEC/EN 61496 | 4                                                                  |
| Marking                               | CE                                                                 |
| Target size                           | static: 32 mm<br>dynamic: 50 mm (at $v = 1.6$ m/s of the obstacle) |
| Beam spacing                          | 400 mm                                                             |
| Number of beams                       | 3                                                                  |
| 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               |
| $PFH_d$                      | $2.81 \text{ E-}9$ |
| Type                         | 4                  |

### Indicators/operating means

|                      |                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Operating display    | LED red in receiver                                                                                                                     |
| Function display     | LED red: per receiver channel<br>off: Interruption<br>flashes: receiver<br>continuously on: reception with sufficient stability control |
| Pre-fault indication | Functional display flashing                                                                                                             |

### Electrical specifications

|                   |       |                               |
|-------------------|-------|-------------------------------|
| Operating voltage | $U_B$ | Power supply via control unit |
| Protection class  | III   |                               |

### 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

|                    |                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| Protection degree  | IP65                                                                                                                         |
| Connection         | M16 cable gland ,<br>terminal compartment                                                                                    |
| Connection options | Further electrical connection options on request:<br>Connector DIN 43 651 Hirschmann, emitter: 6-pin+PE, receiver: 11-pin+PE |
| Material           |                                                                                                                              |
| Housing            | extruded aluminum profile, RAL 1021 (yellow) coated                                                                          |
| Optical face       | Plastic pane                                                                                                                 |
| Mass               | Per 3200 g                                                                                                                   |

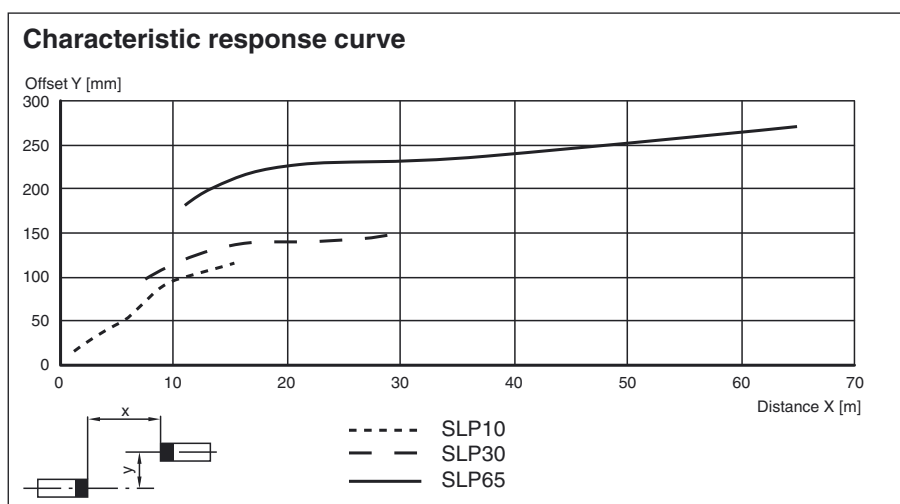
### General information

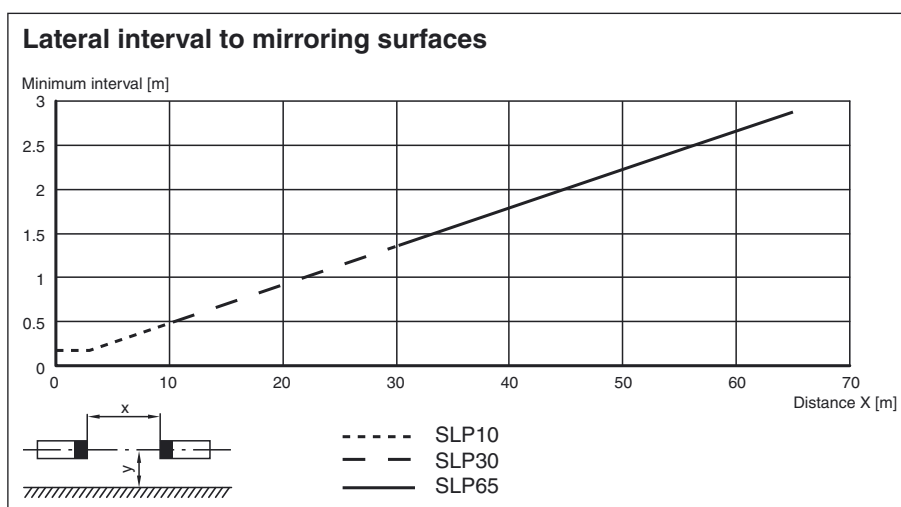
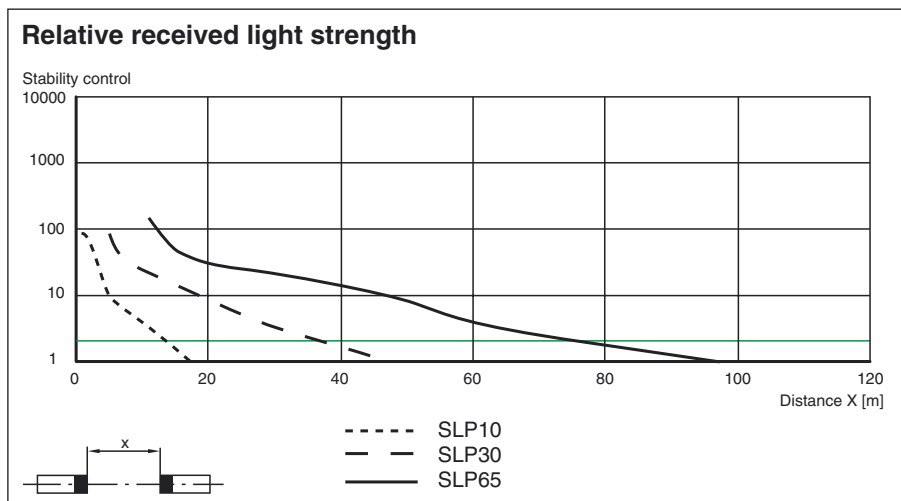
|                   |           |
|-------------------|-----------|
| System components |           |
| Emitter           | SLP10-3-T |
| Receiver          | SLP10-3-R |

### Approvals and certificates

|              |                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------|
| CCC approval | Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval. |
|--------------|--------------------------------------------------------------------------------------------------------------------------|

## Curves/Diagrams





## System accessories

- Control unit SafeBox
- Mounting set MS SLP
- Protective glass pieces for SLP (to protect the optically functional surface)
- Ground pillar UC SLP/SLC
- Housing for pillar Enclosure UC SLP/SLC
- Collision protector Damping UC SLP/SLC
- Profile alignment aid
- Laser alignment aid SLP
- Redirection mirror for multi-side protection of hazardous areas SLP-...-M
- Muting Set MS SLP/SLA28 MS SLPCM

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