

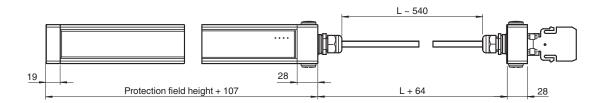
Safety light curtain SLC30-1200-S



- Sensing range up to 15 m
- Resolution 30 mm (hand protection)
- Protection field height up to 1650 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Master/Slave detection, Plug and Play
- Start/Restart disable
- Degree of protection IP67
- Integrated function display
- Pre-fault indication
- Safety outputs OSSD in potential-separated semiconductor design or with monitored, compelled connection NC-contacts
- Optional with ATEX certificates for zone 2 and 22 and degree of protection IP66 (Option 133)

C E

Dimensions



Technical Data

System components Emitter SLC30-1200-T-S Receiver SLC30-1200-R-S General specifications 0.2 ... 15 m Light source IRED

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

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| Technical Data | | |
|---------------------------------------|----------------|--|
| Light type | | modulated infrared light |
| LED risk group labelling | | exempt group |
| Tests | | IEC/EN 61496 |
| Safety type according to IEC/EN 61496 | | 4 |
| Width of protected area | | 0.2 15 m |
| Protection field height | | 1200 mm |
| Number of beams | | 64 |
| Operating mode | | in the master |
| Optical resolution | | 30 mm |
| Angle of divergence | | < 5 ° |
| Functional safety related parameters | | |
| Safety Integrity Level (SIL) | | SIL 3 |
| Performance level (PL) | | PLe |
| Category | | Cat. 4 |
| Mission Time (T _M) | | 20 a |
| PFHd | | 1.5 E-8 |
| Туре | | 4 |
| Indicators/operating means | | |
| Operation indicator | | in the master |
| Diagnostics indicator | | in the master |
| Function indicator | | in the master |
| Pre-fault indicator | | in the master |
| Control elements | | in the master |
| Electrical specifications | | |
| Operating voltage | U _B | from master |
| No-load supply current | I ₀ | from master |
| Protection class | 0 | |
| Input | | |
| Test input | | in the master |
| Function input | | in the master |
| Output | | |
| Safety output | | in the master |
| Signal output | | in the master |
| Response time | | depends on height of protective field |
| Conformity | | |
| Functional safety | | ISO 13849-1 |
| Product standard | | EN 61496-1 ; IEC 61496-2 |
| Approvals and certificates | | |
| CE conformity | | CE |
| UL approval | | cULus Listed |
| CCC approval | | CCC approval / marking not required for products rated \leq 36 V |
| TÜV approval | | TÜV |
| Ambient conditions | | |
| Ambient temperature | | 0 55 °C (32 131 °F) |
| Storage temperature | | -25 70 °C (-13 158 °F) |
| Relative humidity | | max. 95 %, not condensing |
| Mechanical specifications | | |
| Housing length L | | 1310 mm |
| Degree of protection | | IP67 |
| Connection | | M20 cable gland , terminals, lead cross-section max. 1.5 mm ² |
| Material | | |
| Housing | | extruded aluminum profile, RAL 1021 (yellow) coated |
| | | |

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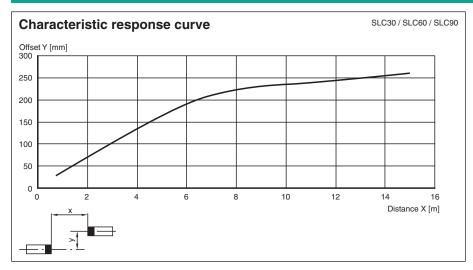


Safety light curtain SLC30-1200-S **Technical Data** Optical face Plastic pane Per 3900 g Mass Connection Slave Master Slave Master 0 0

Remove jumper /

0

Characteristic Curve



Remove cap



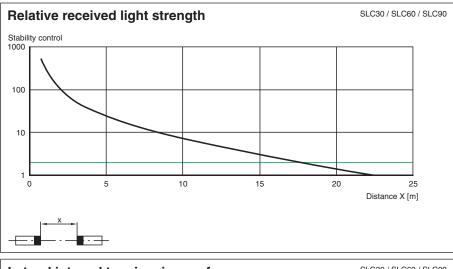
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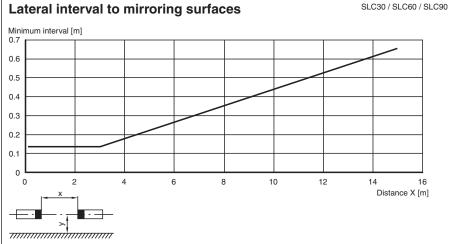
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Insert circuit board and

screw it





Matching system components

| SB4-OR-4XP-B-4159 | Safety control unit |
|---------------------------|---|
| SB4-OR-4XP | Safety control unit |
| SB4-OR-4XP-B | SB4 series safety control unit with 1 optional module slot for functional enhancement |
| SB4-OR-4XP-B-B | SB4 series safety control unit with optional module slots for functional enhancement |
| SB4-OR-4XP-B-B-B | SB4 series safety control unit with optional module slots for functional enhancement |
| SB4-OR-4XP-B-B-B-B | SB4 series safety control unit with optional module slots for functional enhancement |
| SB4-OR-4XP-B-B-B-B-B B | SB4 series safety control unit with optional module slots for functional enhancement |
| SB4-OR-4XP-B-4158 | Safety control unit |
| SB4-OR-4XP-3819 | Safety control unit |

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

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Matching system components

| | SB4-OR-4XP-4M | Safety control unit |
|-------|--------------------|-----------------------------------|
| | SB4-OR-4XP-4MD | Safety control unit |
| | SB4-OR-4XP-4M-4136 | Safety control unit of series SB4 |
| | SB4-OR-4XP-4X | Safety control unit |
| | SB4-OR-4XP-4X-3819 | Safety control unit |
| | SB4-OR-4XP-4136 | Safety control unit of series SB4 |
| Acces | sories | |

| PG SLC-1200 | Protective glass panes for SLC series |
|-------------|---------------------------------------|
| | |
| | |

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

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Notes

Response times of cascading units

If cascading units are set up, the response time of the entire SLC, consisting of a master and a slave, must be determined. The overall number of beams for master and slave can be determined from technical data sheets. Depending on the type of output, the resulting response time can be read from the table.

| Number of beams | Response time in milliseconds | |
|------------------|-------------------------------|--------------|
| | Semiconductor output | Relay output |
| 8 | 10 | 30 |
| 16 | 10 | 30 |
| 24 | 12 | 32 |
| 32 | 14 | 34 |
| 40 | 16 | 36 |
| 48 | 18 | 38 |
| 56 | 20 | 40 |
| 64 | 22 | 42 |
| 72 | 24 | 44 |
| 80 | 26 | 46 |
| 88 | 28 | 48 |
| 96 | 30 | 50 |
| Example: Master: | SLC14-300/31 32 bea | ms |

Example:

SLC60-90-S+ 24 beams

56 beams

56 beams, OSSD relay --> response time = 40 ms.

Notes

Master slave mode

Master: SLC ..-... (semiconductor) or SLC ..-.../31 (relay) Slave: SLC ...-..S

Slave:

Using slaves makes it possible to lengthen protective fields or to form protective fields that lie in more than just one level. When you select slaves that can be connected, you should take into consideration that the maximum number of 96 light rays must not be exceeded.

There are slaves for transmitters and receivers. These may simply be connected to the master light curtain. As many as 2 slaves may be connected respectively to the transmitter and receiver unit.

Installation

- 1. The end cap should be screwed off for the light curtain (without cable gland).
- 2. The plug-in jumper on the connectors of the printed circuit board, which is now visible, should be removed.
- 3. The slave is designed so that the cap located on the cable connector can be plugged directly onto the open end of the light curtain with the printed circuit board.
- 4. After you have screwed on the connection cap, the system is complete.

System accessories

- Mounting set SLC ٠
- Test rods SLC14/SLC30/SLC60
- Protective glass pieces for SLC (to protect the optically functional surface) •
- Lateral screwed connection SLC
- Profile alignment aid •
- Laser alignment aid SLC
- Mirror for SLC (for securing hazardous areas on multiple sides)
- Ground pillar UC SLP/SLC
- Housing for pillar Enclosure UC SLP/SLC
- Collision protector Damping UC SLP/SLC

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