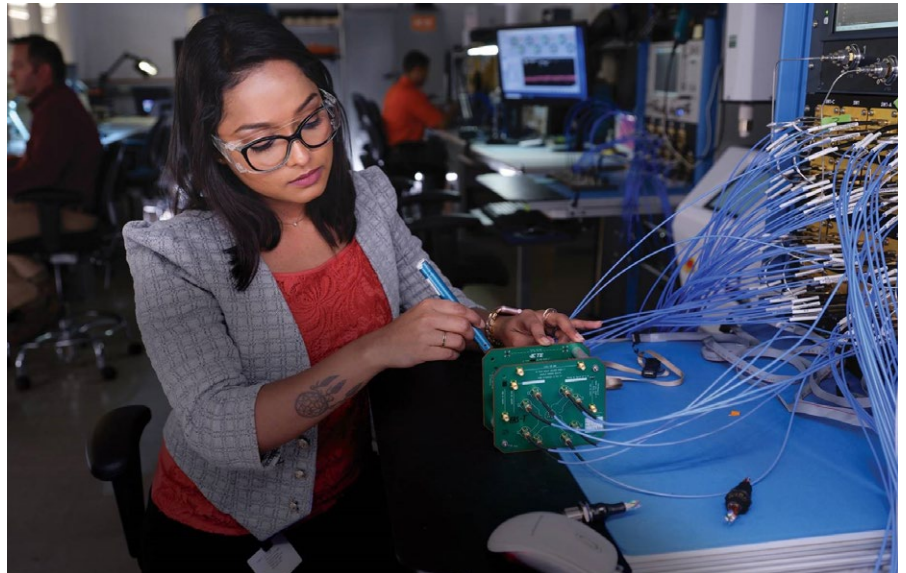


# SAFETY LIGHT CURTAINS

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## SLC Range

- Type 2 & 4 light curtains relays
- Cables
- Columns
- Deflecting mirrors
- Brackets
- Accessories





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## Brackets

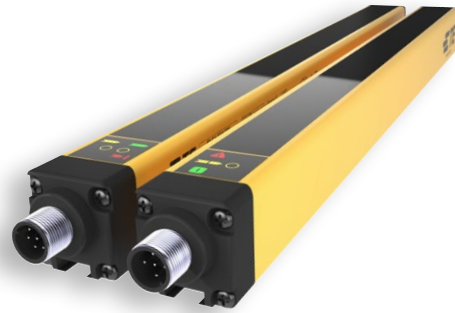
|                       |    |
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# Safety light curtains

## Overview



## ONE SIMPLE PRODUCT RANGE TO COVER MOST OF TODAY'S INDUSTRIAL APPLICATIONS

Safety light curtain (SLC) product range is compact with competitive performance and innovative features. Includes models with integrated safety functions, including self-monitoring of static outputs, control of external contactors (EDM) and selectable automatic/manual restart. 2 safety PNP static outputs. Easy connection and installation thanks to the M12 connectors and the use of unshielded cables.

### RELIABLE AND COMPACT

#### High ingress protection ratings

IP67 and IP65 offer high protection against dirt, dust, sand, water, projections and other liquids with IP67 and IP65 ratings. High resistance to infiltration by dust and liquids in a highly compact light curtain.

#### Compact size

SLC is one of the smallest light curtains on the market (with all integrated safety functions).

With a minimal cross section: 28 x 30 mm.

#### Robustness

Thanks to powder-coated aluminum casing SLC range can obtain high level of reliability. Excellent also in cold storage facilities with -30°C to +55°C operating temperature.

### SAFE AND SMART

#### No blind area

Thanks to the position of the 1st beam on the connector side, the protected area extends until the light curtain end maintaining the resolution.

#### Fast, simple installation

Plug and play thanks to the M12 connectors and the use of unshielded cables. No programming necessary. Easy to install and replace.

#### User-friendly diagnostics via LEDs

Status indicating display with alignment aids are helping the user to diagnose the status.

### HIGH LEVEL OF PRODUCTIVITY AND SAFETY

#### High safety

Type 2 and Type 4 light curtains approved in accordance with:

- EN IEC 61496-1/-2
- ANSI / UL 1998

#### Finger, hand and body protection

From safety light barriers for body protection to the safety light curtain for finger protection and hand protection, the product series SLC4 and SLC2 cover the large portfolio.

#### A range adapted to your needs

Integrated safety functions, including self-monitoring of static outputs, control of external contactors (EDM) and selectable automatic/manual restart, helps for increased productivity due to reduced downtimes.

## Safety light curtains

### Features

#### SLC4 - SLC2 Range

##### Noteworthy features and a comprehensive range

SLC range is a compact light curtain range with competitive performance and innovative features. Includes models with integrated safety functions, including self-monitoring of static outputs, control of external contactors (EDM) and selectable automatic/manual restart.

2 safety PNP static outputs. Easy connection and installation thanks to the M12 connectors and the use of unshielded cables up to 100 m.

#### Aluminum casing

Powder-coated

-30 to +55 °C

#### Operating temperature

Excellent also in cold storage facilities

Protected height  
up to 2,2 meters

#### Caps

Glass reinforced  
polypropylene

#### Zero-Dead-Zone

On one side of  
the curtain

**Finger, hand and body detection  
and multi-beam for access control**  
One of the most comprehensive  
range in today's market

#### Compact size

Only 30 x 28 mm

IP65 and IP67

#### Status indicating display

Including alignment aids

#### Hardware configuration

- No programming necessary
- Easy to install and replace

#### M12 connectors

Cables easy to source and replace  
No shielded cables needed

# Safety light curtains

## Main Features

### SLC4 - SLC2 Range

#### Noteworthy features and a comprehensive range

##### MAIN FEATURES

- **Minimal cross section:** 28 x 30 mm
- **Start-up time:**  $\leq 2$  sec
- **No blind area on one side**  
The position of first beam helps ensure that the sensitive area extends to end of the light curtain.  
The protected area extends until the light curtain end, maintaining the resolution.

##### STANDARDS



-30 to +55°C operating temperature for all models with operating range up to 12 m.

-20 to +55°C operating temperature for H models (operating range up to 20 m) and 14 mm resolution models.



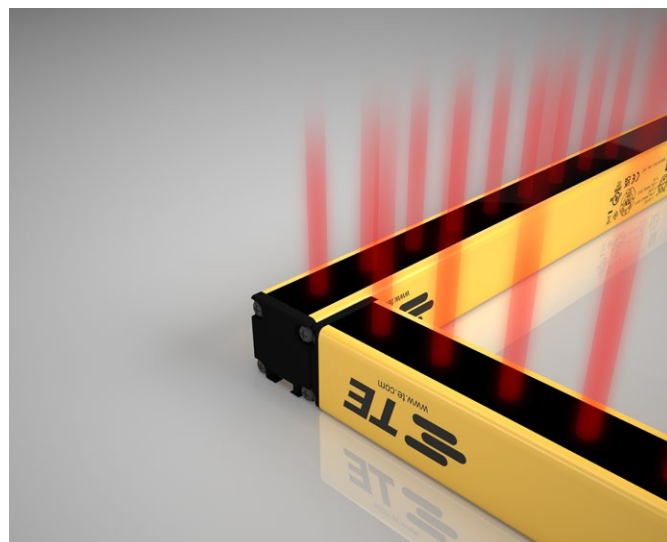
**IP65**

IP65 and IP67 protection rate.

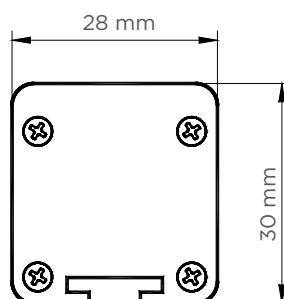


**IP67**

Special versions resistant to vibrations and shocks.



##### DIMENSIONS (mm)



## Safety light curtains

### Certifications

#### SLC4 – SLC2 Range compliance

| Certifications                                                                                                                                                                                         | SLC4                | SLC2                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| 2006/42/EC: “Machine Directive”                                                                                                                                                                        | ●                   | ●                   |
| 2014/30/EU: “Electromagnetic Compatibility Directive”                                                                                                                                                  | ●                   | ●                   |
| 2014/35/EU: “Low Voltage Directive”                                                                                                                                                                    | ●                   | ●                   |
| EN 61496-1:2013 “Safety of machinery - Electro sensitive protective equipment - General requirements and tests”                                                                                        | ●<br>(Type 4)       | ●<br>(Type 2)       |
| EN 61496-2:2013 “Safety of machinery - Electro sensitive protective equipment - Particular requirements for equipment using active opto-electronic protective devices (AOPDs)”                         | ●<br>(Type 4)       | ●<br>(Type 2)       |
| IEC 61508-1 (ed. 2) “Functional safety of electrical/electronic programmable electronic safety related systems: General requirements”                                                                  | ●<br>(SIL 3)        | ●<br>(SIL 1)        |
| IEC 61508-2 (ed. 2) “Functional safety of electrical/electronic/programmable electronic safety related systems: Requirements for electrical/electronic/programmable electronic safety-related systems” | ●<br>(SIL 3)        | ●<br>(SIL 1)        |
| IEC 61508-3 (ed. 2) “Functional safety of electrical/electronic programmable electronic safety related systems: Software requirements”                                                                 | ●<br>(SIL 3)        | ●<br>(SIL 1)        |
| IEC 61508-4 (ed. 2) “Functional safety of electrical/electronic programmable electronic safety related systems: Definitions and abbreviations”                                                         | ●<br>(SIL 3)        | ●<br>(SIL 1)        |
| IEC 62061:2005/A2:2015 “Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems”                                                  | ●<br>(SILCL 3)      | ●<br>(SILCL 1)      |
| EN ISO 13849-1:2015 “Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design”                                                                            | ●<br>(Cat. 4, PL e) | ●<br>(Cat. 2, PL c) |
| EN 50178:1997 “Electronic equipment for use in power installations”                                                                                                                                    | ●                   | ●                   |
| EN 55022:2006 “Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement”                                                                               | ●                   | ●                   |
| EN 60068-2-6:2009 “Environmental testing Part 2-6: Tests - Test Fc: Vibration (sinusoidal)”                                                                                                            | ●                   | ●                   |
| UL (C+US) mark for USA and Canada                                                                                                                                                                      | ●                   | ●                   |
| ANSI / UL 1998: “Safety Software in Programmable Components”                                                                                                                                           | ●                   | ●                   |

#### SAFETY PARAMETERS FOR TYPE 2 LIGHT CURTAINS

With the publication of Edition 3 of the harmonized EN 61496-1 standard it is no longer possible to use a Type 2 safety light curtains for safety functions assessed as SIL 2 / PL d.

If a safety level of SIL 2 / PL d (or higher) is required and it is nevertheless intended to use a safety light curtain, then it will be necessary to use a Type 4 safety light curtain. This regulatory requirement derives from the fact that the reduction of risk that can be obtained via a photoelectric safety light curtain is not only a function of the safety level of its electronic parts, but is also determined by its systematic capabilities (for example: environmental influences, EMC, optical performance and detection principle).

The systematic capability of a Type 2 photoelectric light curtain may in fact not be sufficient to help ensure adequate risk reduction for SIL 2 / PL d applications.

The standard also establishes that the labelling of Type 2 safety light curtains must indicate such limitation to SIL 1 / PL c. The PFHd values declared for the electronic control part of the device, on the other hand, are not limited and therefore it is possible to use the PFHd value provided by the manufacturer of the device in the global assessment of the safety function, even if it exceeds the SIL 1 / PL c range.

## Safety light curtains

Application example

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# Safety light curtains

SLC4 Range

## SLC4 Range with built-in control functions

### FEATURES

- Selectable manual/automatic Start/Restart.
- Resolution: 14, 20, 30, 40, 50, 90 mm
- Access control: 2, 3, 4 beams
- Safety outputs: 2
- Selectable operating range: 0 to 4 m - low range/0 to 12 m
  - high range 14 mm resolution models: 0 to 3 m
  - low range / 1 to 6 m - high range
- Integrated feedback input for external device monitoring (EDM)
- Electrical connections and setting adjustments through M12 5-pole connector for emitter, M12 8-pole connector for receiver
- Unshielded cables up to 100 meters long can be used to connect the light curtain.
- Protected heights: 160 mm to 2260 mm

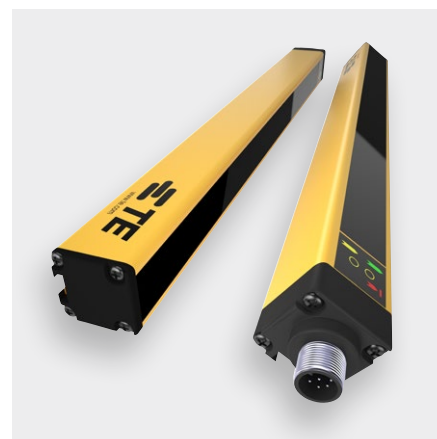
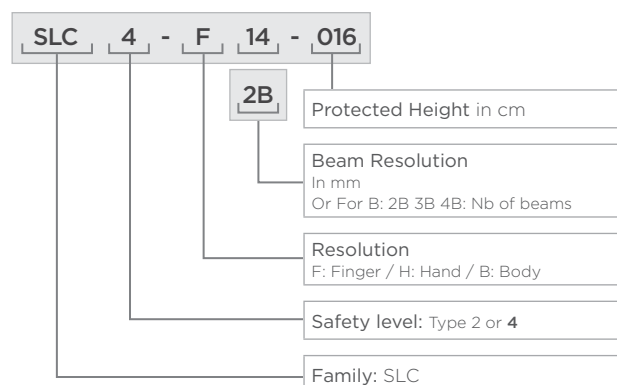
### COMPATIBLE CABLES

- Emitter: M12 5-pole (SLC-FC5-M12-5P, SLC-FC10-M12-5P, SLC-FC15-M12-5P...) See page 18-19
- Receiver: M12 8-pole (SLC-FC5-M12-8P, SLC-FC10-M12-8P, SLC-FC15-M12-8P...) See page 18-19

### ACCESSORIES

- Safety relay. See SRS4-2NO & SRS4M-2NO page 16-17
- Support columns. See page 20-22
- Deflecting mirrors. See page 23
- Laser alignment device. See page 25
- Vibration dampers. See page 25
- Brackets. See page 24

### PART TYPE SYSTEM



### SAFETY LEVEL

#### TYPE 4

SIL 3 - SILCL 3 | PL e - Cat. 4

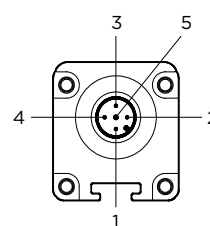
### APPROVALS



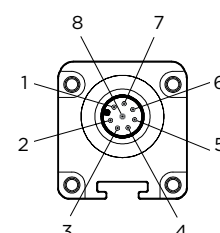
### CONNECTORS

Emitter:  
M12 5-pole

Receiver:  
M12 8-pole



- 1 - 24 VDC
- 2 - RANGE 0
- 3 - 0 VDC
- 4 - RANGE 1
- 5 - PE



- 1 - OSSD 1
- 2 - 24 VDC
- 3 - OSSD 2
- 4 - K1 K2 / RESTART
- 5 - SEL A
- 6 - SEL B
- 7 - 0 VDC
- 8 - PE

# Safety light curtains

## SLC4 Range



### Technical features

- Max. range (m):
  - Selectable 3 to 6 m for 14 mm resolution models
  - Selectable 4 to 12 m for all other models
  - Selectable 10 to 20 m for L versions
- Response time: 2,5 to 20 ms
- Safety outputs: 2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection
- Status display: LEDs for light curtain's status and diagnostic
- Power supply (VDC) : 24 ± 20%
- Fastening: Via back slot with provided standard brackets or at the top and lower end with optional rotating brackets. See accessories

### Ordering information



#### FINGER resolution

Max. range: selectable 3 to 6 m



#### HAND resolution - Max. range: selectable 4 to 12 m

**L versions** - Max. range: selectable 10 to 20 m

| Protected height (mm) | Overall height (mm) | Resolution 14 mm |              |             |  | Resolution 20 mm |               |             |  | Resolution 30 mm |               |             |  |
|-----------------------|---------------------|------------------|--------------|-------------|--|------------------|---------------|-------------|--|------------------|---------------|-------------|--|
|                       |                     | Nb of beam       | Type         | Part Number |  | Nb of beam       | Type          | Part Number |  | Nb of beam       | Type          | Part Number |  |
| 160                   | 213                 | 15               | SLC4-F14-016 | 2437979-1   |  | 15               | SLC4-H20-016L | 2447901-1   |  | 8                | SLC4-H30-016  | 2446038-1   |  |
| 260                   | 313                 | 25               | SLC4-F14-026 | 2437979-2   |  | -                | -             | -           |  | 13               | SLC4-H30-016L | 2447902-1   |  |
| 310                   | 363                 | 30               | SLC4-F14-031 | 2437979-3   |  | 30               | SLC4-H20-031L | 2447901-3   |  | 16               | SLC4-H30-026  | 2446038-2   |  |
| 460                   | 513                 | 45               | SLC4-F14-046 | 2437979-4   |  | 45               | SLC4-H20-031L | 2447901-3   |  | 23               | SLC4-H30-031  | 2446038-3   |  |
| 610                   | 663                 | 60               | SLC4-F14-061 | 2437979-6   |  | 60               | SLC4-H20-046L | 2447901-4   |  | 31               | SLC4-H30-031L | 2447902-3   |  |
| 760                   | 813                 | 75               | SLC4-F14-076 | 2437979-7   |  | 75               | SLC4-H20-046L | 2447901-4   |  | 31               | SLC4-H30-046L | 2447902-4   |  |
| 910                   | 963                 | 90               | SLC4-F14-091 | 2437979-9   |  | 90               | SLC4-H20-061L | 2447901-6   |  | 31               | SLC4-H30-061  | 2446038-6   |  |
| 1060                  | 1113                | 105              | SLC4-F14-106 | 1-2437979-0 |  | 105              | SLC4-H20-061L | 2447901-6   |  | 38               | SLC4-H30-061L | 2447902-6   |  |
| 1210                  | 1263                | 120              | SLC4-F14-121 | 1-2437979-2 |  | 120              | SLC4-H20-076L | 2447901-7   |  | 38               | SLC4-H30-076  | 2446038-7   |  |
| 1360                  | 1413                | 135              | SLC4-F14-136 | 1-2437979-3 |  | 135              | SLC4-H20-076L | 2447901-7   |  | 46               | SLC4-H30-076L | 2447902-7   |  |
| 1510                  | 1563                | 150              | SLC4-F14-151 | 1-2437979-5 |  | 150              | SLC4-H20-091L | 2447901-9   |  | 46               | SLC4-H30-091  | 2446038-9   |  |
| 1660                  | 1713                | 165              | SLC4-F14-166 | 1-2437979-6 |  | 165              | SLC4-H20-091L | 2447901-9   |  | 53               | SLC4-H30-091L | 1-2447902-0 |  |
| 1810                  | 1863                | 180              | SLC4-F14-181 | 1-2437979-8 |  | 180              | SLC4-H20-106L | 1-2447901-0 |  | 53               | SLC4-H30-106  | 1-2446038-0 |  |
| 1960                  | 2013                | 195              | SLC4-F14-196 | 1-2437979-9 |  | 195              | SLC4-H20-106L | 1-2447901-0 |  | 61               | SLC4-H30-106L | 1-2447902-1 |  |
| 2110                  | 2163                | -                | -            | -           |  | -                | SLC4-H20-121L | 1-2447901-2 |  | 61               | SLC4-H30-121  | 1-2446038-2 |  |
| 2260                  | 2313                | -                | -            | -           |  | -                | SLC4-H20-121L | 1-2447901-2 |  | 61               | SLC4-H30-121L | 1-2447902-2 |  |
|                       |                     |                  |              |             |  | 135              | SLC4-H20-136L | 1-2447901-3 |  | 68               | SLC4-H30-136  | 1-2446038-3 |  |
|                       |                     |                  |              |             |  | 150              | SLC4-H20-136L | 1-2447901-3 |  | 68               | SLC4-H30-136L | 1-2447902-3 |  |
|                       |                     |                  |              |             |  | 150              | SLC4-H20-151L | 1-2447901-5 |  | 76               | SLC4-H30-151  | 1-2446038-5 |  |
|                       |                     |                  |              |             |  | 165              | SLC4-H20-151L | 1-2447901-5 |  | 76               | SLC4-H30-151L | 1-2447902-5 |  |
|                       |                     |                  |              |             |  | 165              | SLC4-H20-166L | 1-2447901-6 |  | 83               | SLC4-H30-166  | 1-2446038-6 |  |
|                       |                     |                  |              |             |  | 180              | SLC4-H20-166L | 1-2447901-6 |  | 83               | SLC4-H30-166L | 1-2447902-6 |  |
|                       |                     |                  |              |             |  | 180              | SLC4-H20-181L | 1-2447901-8 |  | 91               | SLC4-H30-181  | 1-2446038-8 |  |
|                       |                     |                  |              |             |  | 195              | SLC4-H20-181L | 1-2447901-8 |  | 91               | SLC4-H30-181L | 1-2447902-8 |  |
|                       |                     |                  |              |             |  | 195              | SLC4-H20-196L | 1-2447901-9 |  | 98               | SLC4-H30-196  | 1-2446038-9 |  |
|                       |                     |                  |              |             |  | -                | SLC4-H20-196L | 1-2447901-9 |  | 98               | SLC4-H30-196L | 1-2447902-9 |  |
|                       |                     |                  |              |             |  | -                | -             | -           |  | 106              | SLC4-H30-211  | 2-2446038-1 |  |
|                       |                     |                  |              |             |  | -                | -             | -           |  | 106              | SLC4-H30-211L | 2-2447902-1 |  |
|                       |                     |                  |              |             |  | -                | -             | -           |  | 113              | SLC4-H30-226  | 2-2446038-2 |  |
|                       |                     |                  |              |             |  | -                | -             | -           |  | 113              | SLC4-H30-226L | 2-2447902-2 |  |

### PACKING

1 piece per box (1 emitter and 1 receiver)

## Safety light curtains

### SLC4 Range



**BODY resolution** - Max. range: selectable 4 to 12 m  
**L versions** - Max. range: selectable 10 to 20 m

| Resolution 40 mm |               |             |  | Resolution 50 mm |               |             |  | Resolution 90 mm |               |             |  |
|------------------|---------------|-------------|--|------------------|---------------|-------------|--|------------------|---------------|-------------|--|
| Nb of beam       | Type          | Part Number |  | Nb of beam       | Type          | Part Number |  | Nb of beam       | Type          | Part Number |  |
| 6                | SLC4-H40-016  | 2447896-1   |  | 4                | SLC4-B50-016  | 2447897-1   |  | -                | -             | -           |  |
|                  | SLC4-H40-016L | 2447903-4   |  |                  | SLC4-B50-016L | 2447904-1   |  | -                | -             | -           |  |
| 9                | SLC4-H40-026  | 2447896-2   |  | -                | -             | -           |  | -                | -             | -           |  |
|                  |               |             |  | -                | -             | -           |  | -                | -             | -           |  |
| 11               | SLC4-H40-031  | 2447896-3   |  | 8                | SLC4-B50-031  | 2447897-3   |  | 4                | SLC4-B90-031  | 2447899-3   |  |
|                  | SLC4-H40-031L | 2447903-3   |  |                  | SLC4-B50-031L | 2447904-3   |  |                  | SLC4-B90-031L | 2447905-3   |  |
| 16               | SLC4-H40-046  | 2447896-4   |  | 12               | SLC4-B50-046  | 2447897-4   |  | 6                | SLC4-B90-046  | 2447899-4   |  |
|                  | SLC4-H40-046L | 2447903-4   |  |                  | SLC4-B50-046L | 2447904-4   |  |                  | SLC4-B90-046L | 2447905-4   |  |
| 21               | SLC4-H40-061  | 2447896-6   |  | 16               | SLC4-B50-061  | 2447897-6   |  | 8                | SLC4-B90-061  | 2447899-6   |  |
|                  | SLC4-H40-061L | 2447903-6   |  |                  | SLC4-B50-061L | 2447904-6   |  |                  | SLC4-B90-061L | 2447905-6   |  |
| 26               | SLC4-H40-076  | 2447896-7   |  | 20               | SLC4-B50-076  | 2447897-7   |  | 10               | SLC4-B90-076  | 2447899-7   |  |
|                  | SLC4-H40-076L | 2447903-7   |  |                  | SLC4-B50-076L | 2447904-7   |  |                  | SLC4-B90-076L | 2447905-7   |  |
| 31               | SLC4-H40-091  | 2447896-9   |  | 24               | SLC4-B50-091  | 2447897-9   |  | 12               | SLC4-B90-091  | 2447899-9   |  |
|                  | SLC4-H40-091L | 2447903-9   |  |                  | SLC4-B50-091L | 2447904-9   |  |                  | SLC4-B90-091L | 2447905-9   |  |
| 36               | SLC4-H40-106  | 1-2447896-0 |  | 28               | SLC4-B50-106  | 1-2447897-0 |  | 14               | SLC4-B90-106  | 1-2447899-0 |  |
|                  | SLC4-H40-106L | 1-2447903-0 |  |                  | SLC4-B50-106L | 1-2447904-0 |  |                  | SLC4-B90-106L | 1-2447905-0 |  |
| 41               | SLC4-H40-121  | 1-2447896-2 |  | 32               | SLC4-B50-121  | 1-2447897-2 |  | 16               | SLC4-B90-121  | 1-2447899-2 |  |
|                  | SLC4-H40-121L | 1-2447903-2 |  |                  | SLC4-B50-121L | 1-2447904-2 |  |                  | SLC4-B90-121L | 1-2447905-2 |  |
| 46               | SLC4-H40-136  | 1-2447896-3 |  | 36               | SLC4-B50-136  | 1-2447897-3 |  | 18               | SLC4-B90-136  | 1-2447899-3 |  |
|                  | SLC4-H40-136L | 1-2447903-3 |  |                  | SLC4-B50-136L | 1-2447904-3 |  |                  | SLC4-B90-136L | 1-2447905-3 |  |
| 51               | SLC4-H40-151  | 1-2447896-5 |  | 40               | SLC4-B50-151  | 1-2447897-5 |  | 20               | SLC4-B90-151  | 1-2447899-5 |  |
|                  | SLC4-H40-151L | 1-2447903-5 |  |                  | SLC4-B50-151L | 1-2447904-5 |  |                  | SLC4-B90-151L | 1-2447905-5 |  |
| 56               | SLC4-H40-166  | 1-2447896-6 |  | 44               | SLC4-B50-166  | 1-2447897-6 |  | 22               | SLC4-B90-166  | 1-2447899-6 |  |
|                  | SLC4-H40-166L | 1-2447903-6 |  |                  | SLC4-B50-166L | 1-2447904-6 |  |                  | SLC4-B90-166L | 1-2447905-6 |  |
| 61               | SLC4-H40-181  | 1-2447896-8 |  | 48               | SLC4-B50-181  | 1-2447897-8 |  | 24               | SLC4-B90-181  | 1-2447899-8 |  |
|                  | SLC4-H40-181L | 1-2447903-8 |  |                  | SLC4-B50-181L | 1-2447904-8 |  |                  | SLC4-B90-181L | 1-2447905-8 |  |
| 66               | SLC4-H40-196  | 1-2447896-9 |  | 52               | SLC4-B50-196  | 1-2447897-9 |  | 26               | SLC4-B90-196  | 1-2447899-9 |  |
|                  | SLC4-H40-196L | 1-2447903-9 |  |                  | SLC4-B50-196L | 1-2447904-9 |  |                  | SLC4-B90-196L | 1-2447905-9 |  |
| 71               | SLC4-H40-211  | 2-2447896-1 |  | 56               | SLC4-B50-211  | 2-2447897-1 |  | 28               | SLC4-B90-211  | 2-2447899-1 |  |
|                  | SLC4-H40-211L | 2-2447903-1 |  |                  | SLC4-B50-211L | 2-2447904-1 |  |                  | SLC4-B90-211L | 2-2447905-1 |  |
| 76               | SLC4-H40-226  | 2-2447896-2 |  | 60               | SLC4-B50-226  | 2-2447897-2 |  | 30               | SLC4-B90-226  | 2-2447899-2 |  |
|                  | SLC4-H40-226L | 2-2447903-2 |  |                  | SLC4-B50-226L | 2-2447904-2 |  |                  | SLC4-B90-226L | 2-2447905-2 |  |



**ACCESS CONTROL** - Max. range: selectable 4 to 12 m  
**L versions** - Max. range: selectable 10 to 20 m - 2, 3 or 4 beams

| Protected height (mm) | Overall height (mm) | Resolution 20 mm |                   |               |             |  |
|-----------------------|---------------------|------------------|-------------------|---------------|-------------|--|
|                       |                     | Nb of beam       | Beam spacing (mm) | Type          | Part Number |  |
| 510                   | 653                 | 2                | 500               | SLC4-B2B-051  | 2447900-5   |  |
|                       |                     |                  |                   | SLC4-B2B-051L | 2447906-5   |  |
| 810                   | 953                 | 3                | 400               | SLC4-B3B-081  | 2447900-8   |  |
|                       |                     |                  |                   | SLC4-B3B-081L | 2447906-8   |  |
| 910                   | 1053                | 4                | 300               | SLC4-B4B-091  | 2447900-9   |  |
|                       |                     |                  |                   | SLC4-B4B-091L | 2447906-9   |  |

# Safety light curtains

SLC2 Range

## SLC2 Range with built-in control functions

### FEATURES

- Selectable manual/automatic Start/Restart.
- Resolution: 30, 40, 50, 90 mm
- Access control: 2, 3, 4 beams
- Safety outputs: 2
- Integrated feedback input for external device monitoring (EDM)
- Electrical connections and setting adjustments through M12 5-pole connector for emitter, M12 8-pole connector for receiver
- Unshielded cables up to 100 meters long can be used to connect the light curtain.
- Protected heights: 160 mm to 2260 mm

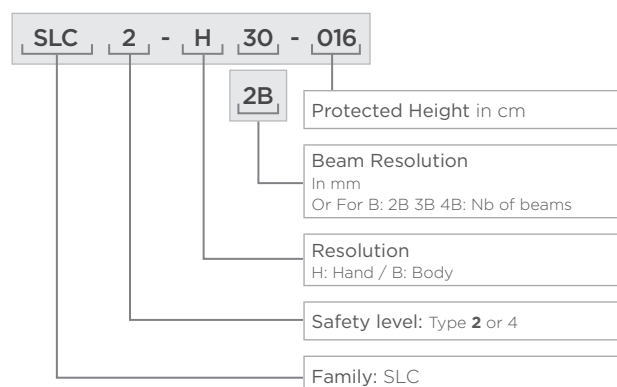
### COMPATIBLE CABLES

- Emitter: M12 5-pole (SLC-FC5-M12-5P, SLC-FC10-M12-5P, SLC-FC15-M12-5P...) See page 18-19
- Receiver: M12 8-pole (SLC-FC5-M12-8P, SLC-FC10-M12-8P, SLC-FC15-M12-8P...) See page 18-19

### ACCESSORIES

- Safety relay. See SRS4-2NO & SRS4M-2NO page 16-17
- Support columns. See page 20-22
- Deflecting mirrors. See page 23
- Laser alignment device. See page 25
- Vibration dampers. See page 25
- Brackets. See page 24

### PART TYPE SYSTEM



### SAFETY LEVEL

#### TYPE 2

SIL 1 - SILCL 1 | PL c - Cat. 2

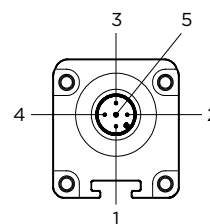
### APPROVALS



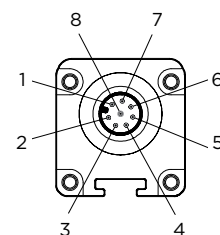
### CONNECTORS

Emitter:  
M12 5-pole

Receiver:  
M12 8-pole



- 1 - 24 VDC
- 2 - RANGE 0
- 3 - 0 VDC
- 4 - RANGE 1
- 5 - PE



- 1 - OSSD 1
- 2 - 24 VDC
- 3 - OSSD 2
- 4 - K1 K2 / RESTART
- 5 - SEL A
- 6 - SEL B
- 7 - 0 VDC
- 8 - PE

## Safety light curtains

### SLC2 Range



#### Technical features

- Max. range (m): 4 or 12 m
- Response time: 2,5 to 18,5 ms
- Safety outputs: 2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection
- Status display: LEDs for light curtain's status and diagnostic
- Power supply (VDC): 24 ± 20%
- Fastening: Via back slot with provided standard brackets or at the top and lower end with optional rotating brackets. See accessories.

#### Ordering information



#### HAND resolution

Max. range: selectable 12 m

| Protected height (mm) | Overall height (mm) | Resolution 30 mm |              |             |  | Resolution 40 mm |              |             |  |
|-----------------------|---------------------|------------------|--------------|-------------|--|------------------|--------------|-------------|--|
|                       |                     | Nb of beam       | Type         | Part Number |  | Nb of beam       | Type         | Part Number |  |
| 160                   | 213                 | 8                | SLC2-H30-016 | 2447907-1   |  | 6                | SLC2-H40-016 | 2447908-1   |  |
| 260                   | 313                 | 13               | SLC2-H30-026 | 2447907-2   |  | 8                | SLC2-H40-026 | 2447908-2   |  |
| 310                   | 363                 | 16               | SLC2-H30-031 | 2447907-3   |  | 11               | SLC2-H40-031 | 2447908-3   |  |
| 460                   | 513                 | 23               | SLC2-H30-046 | 2447907-4   |  | 16               | SLC2-H40-046 | 2447908-4   |  |
| 610                   | 663                 | 31               | SLC2-H30-061 | 2447907-6   |  | 21               | SLC2-H40-061 | 2447908-6   |  |
| 760                   | 813                 | 38               | SLC2-H30-076 | 2447907-7   |  | 26               | SLC2-H40-076 | 2447908-7   |  |
| 910                   | 963                 | 46               | SLC2-H30-091 | 2447907-9   |  | 31               | SLC2-H40-091 | 2447908-9   |  |
| 1060                  | 1113                | 53               | SLC2-H30-106 | 1-2447907-0 |  | 36               | SLC2-H40-106 | 1-2447908-0 |  |
| 1210                  | 1263                | 61               | SLC2-H30-121 | 1-2447907-2 |  | 41               | SLC2-H40-121 | 1-2447908-2 |  |
| 1360                  | 1413                | 68               | SLC2-H30-136 | 1-2447907-3 |  | 46               | SLC2-H40-136 | 1-2447908-3 |  |
| 1510                  | 1563                | 76               | SLC2-H30-151 | 1-2447907-5 |  | 51               | SLC2-H40-151 | 1-2447908-5 |  |
| 1660                  | 1713                | 83               | SLC2-H30-166 | 1-2447907-6 |  | 56               | SLC2-H40-166 | 1-2447908-6 |  |
| 1810                  | 1863                | 91               | SLC2-H30-181 | 1-2447907-8 |  | 61               | SLC2-H40-181 | 1-2447908-8 |  |
| 1960                  | 2013                | 98               | SLC2-H30-196 | 1-2447907-9 |  | 66               | SLC2-H40-196 | 1-2447908-9 |  |
| 2110                  | 2163                | 106              | SLC2-H30-211 | 2-2447907-1 |  | 71               | SLC2-H40-211 | 2-2447908-1 |  |
| 2260                  | 2313                | 113              | SLC2-H30-226 | 2-2447907-2 |  | 76               | SLC2-H40-226 | 2-2447908-2 |  |



#### BODY resolution - F versions

Max. range: selectable 12 m

| Protected height (mm) | Overall height (mm) | Resolution 50 mm |              |             |  | Resolution 90 mm |              |             |  |
|-----------------------|---------------------|------------------|--------------|-------------|--|------------------|--------------|-------------|--|
|                       |                     | Nb of beam       | Type         | Part Number |  | Nb of beam       | Type         | Part Number |  |
| 160                   | 213                 | 4                | SLC2-B50-016 | 2447909-1   |  | -                | -            | -           |  |
| 310                   | 363                 | 8                | SLC2-B50-031 | 2447909-3   |  | 4                | SLC2-B90-031 | 2447910-3   |  |
| 460                   | 513                 | 12               | SLC2-B50-046 | 2447909-4   |  | 6                | SLC2-B90-046 | 2447910-4   |  |
| 610                   | 663                 | 16               | SLC2-B50-061 | 2447909-6   |  | 8                | SLC2-B90-061 | 2447910-6   |  |
| 760                   | 813                 | 20               | SLC2-B50-076 | 2447909-7   |  | 10               | SLC2-B90-076 | 2447910-7   |  |
| 910                   | 963                 | 24               | SLC2-B50-091 | 2447909-9   |  | 12               | SLC2-B90-091 | 2447910-9   |  |
| 1060                  | 1113                | 28               | SLC2-B50-106 | 1-2447909-0 |  | 14               | SLC2-B90-106 | 1-2447910-0 |  |
| 1210                  | 1263                | 32               | SLC2-B50-121 | 1-2447909-2 |  | 16               | SLC2-B90-121 | 1-2447910-2 |  |
| 1360                  | 1413                | 36               | SLC2-B50-136 | 1-2447909-3 |  | 18               | SLC2-B90-136 | 1-2447910-3 |  |
| 1510                  | 1563                | 40               | SLC2-B50-151 | 1-2447909-5 |  | 20               | SLC2-B90-151 | 1-2447910-5 |  |
| 1660                  | 1713                | 44               | SLC2-B50-166 | 1-2447909-6 |  | 22               | SLC2-B90-166 | 1-2447910-6 |  |
| 1810                  | 1863                | 48               | SLC2-B50-181 | 1-2447909-8 |  | 24               | SLC2-B90-181 | 1-2447910-8 |  |
| 1960                  | 2013                | 52               | SLC2-B50-196 | 1-2447909-9 |  | 26               | SLC2-B90-196 | 1-2447910-9 |  |
| 2110                  | 2163                | 56               | SLC2-B50-211 | 2-2447909-1 |  | 28               | SLC2-B90-211 | 2-2447910-1 |  |
| 2260                  | 2313                | 60               | SLC2-B50-226 | 2-2447909-2 |  | 30               | SLC2-B90-226 | 2-2447910-2 |  |



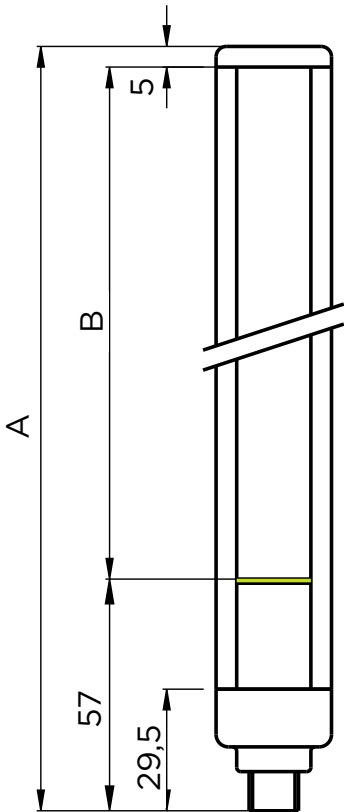
#### ACCESS CONTROL F versions

Max. range: selectable 12 m - 2, 3 or 4 beams

| Protected height (mm) | Overall height (mm) | Resolution 20 mm |                   |              |             |
|-----------------------|---------------------|------------------|-------------------|--------------|-------------|
|                       |                     | Nb of beam       | Beam spacing (mm) | Type         | Part Number |
| 510                   | 653                 | 2                | 500               | SLC2-B2B-051 | 2447911-5   |
| 810                   | 953                 | 3                | 400               | SLC2-B3B-081 | 2447911-8   |
| 910                   | 1053                | 4                | 300               | SLC2-B4B-091 | 2447911-9   |

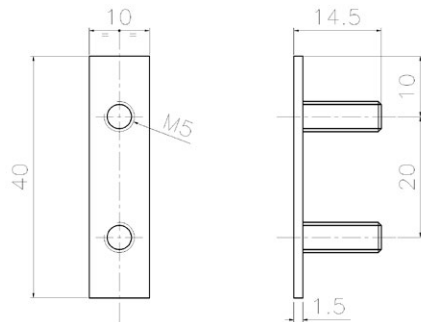
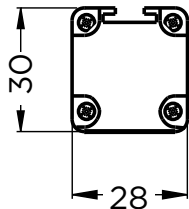
**PACKING** 1 piece per box (1 emitter and 1 receiver)

SLC2 - SLC4 Emitter and receiver



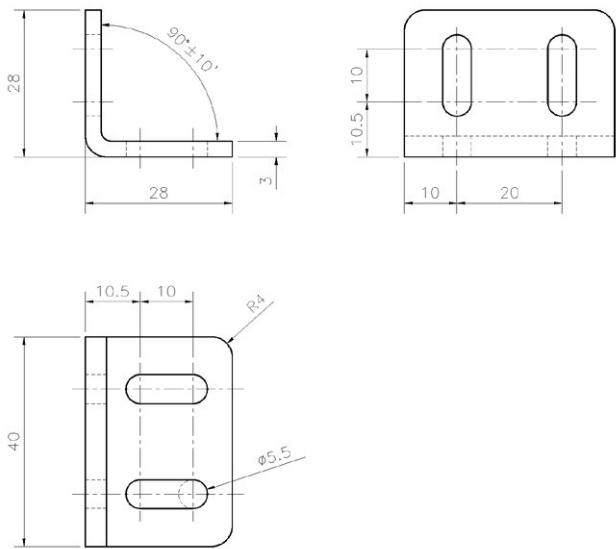
Emitter - Receiver

Standard model



| Model | A (mm) | B (mm) | Mounting                             |
|-------|--------|--------|--------------------------------------|
| 2B    | 653    | 590    | Set of 4 essential brackets included |
| 3B    | 953    | 890    |                                      |
| 4B    | 1053   | 990    |                                      |
| 150   | 213    | 150    | Set of 4 essential brackets included |
| 250   | 313    | 250    |                                      |
| 300   | 363    | 300    |                                      |
| 450   | 513    | 450    |                                      |
| 600   | 663    | 600    |                                      |
| 750   | 813    | 750    |                                      |
| 900   | 963    | 900    |                                      |
| 1050  | 1113   | 1050   | Set of 6 essential brackets included |
| 1200  | 1263   | 1200   |                                      |
| 1350  | 1413   | 1350   |                                      |
| 1500  | 1563   | 1500   |                                      |
| 1650  | 1713   | 1650   |                                      |
| 1800  | 1863   | 1800   |                                      |
| 1950  | 2013   | 1950   |                                      |
| 2100  | 2163   | 2100   |                                      |
| 2250  | 2313   | 2250   |                                      |

DIMENSIONS (mm)



Inserts and essential fastening brackets (provided in the box).

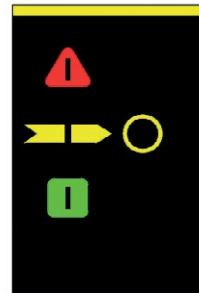
## Safety light curtains

Display

### SLC2 - SLC4 Status display

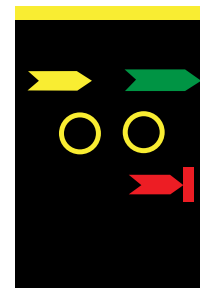
#### Emitter - All models

| Three colour LED                                                                  | Meaning                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  | System power-on - Initial TEST                                                                   |
|  | System power-on - HIGH working range selected                                                    |
|  | FAIL condition - The type of fault is identified by the number of flashes - See technical manual |
|  | TEST condition                                                                                   |
|  | Normal operating condition                                                                       |



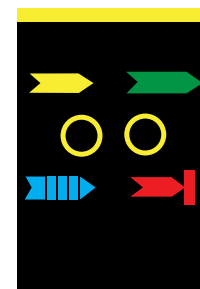
#### Receiver - All models except SLC4 14 mm and L (range 20 m) versions

| 1 - Yellow LED                                                                     | 2 - Two colour LED                                                                 | Meaning                                                                                          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|   |   | System power-on - Initial TEST                                                                   |
|   |   | BREAK condition                                                                                  |
|   |   | CLEAR condition - SLC4 (with integrated control functions) only                                  |
|   |   | BREAK_K condition - SLC4 (with integrated control functions) only                                |
|   |   | GUARD condition                                                                                  |
|  |  | FAIL condition - The type of fault is identified by the number of flashes - See technical manual |



#### Receiver - SLC4 14 mm and L (range 20 m) versions

| 1 - Two colour LED                                                                  | 2 - Two colour LED                                                                  | Meaning                                                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  |  | System power-on - Initial TEST                                                                   |
|  |  | BREAK condition                                                                                  |
|  |  | CLEAR condition - SLC4 (with integrated control functions) only                                  |
|  |  | BREAK_K condition - SLC4 (with integrated control functions) only                                |
|  |  | GUARD condition                                                                                  |
|  |  | FAIL condition - The type of fault is identified by the number of flashes - See technical manual |
|  |  | GUARD condition with weak signal                                                                 |
|  |  | CLEAR condition with weak signal                                                                 |
|  |  | BREAK condition with weak signal                                                                 |
|  |  | BREAK_K condition with weak signal - SLC4 (with integrated control functions) only               |



# Safety light curtains

Compatible interfaces

## SRS4-2NO Type 4 interface for OSSD output devices

### FEATURES

Safety interface module for safety light curtains SLC4 and SLC2.

- Guided-contact safety relays
- Start/Restart interlock
- EDM feedback input for extra external contactors monitoring

### ORDERING INFORMATION

| Description                              | Type      | Part Number | Pkg |
|------------------------------------------|-----------|-------------|-----|
| TYPE 4 INTERFACE FOR OSSD OUTPUT DEVICES | SRS4- 2NO | 2447935-1   | 1   |

### MAIN TECHNICAL DATA

|                                                |                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------|
| Safety relay outputs                           | 2 NO - 6 A 250 VAC                                                               |
| Status output                                  | PNP - 100 mA at 24 VDC                                                           |
| Response time (ms)                             | ≤ 20                                                                             |
| Start/Restart command according to IEC 61496-1 | Automatic/Manual monitored selectable                                            |
| Status display                                 | LEDs indication of power on, connected light curtains status and fault diagnosis |
| Power supply (VDC)                             | 24 ± 20%                                                                         |
| Electrical connections                         | On terminal blocks                                                               |
| Operating temperature (°C)                     | -30°C to +55°C                                                                   |
| Protection rating                              | IP20 for housing<br>IP2X for terminal blocks                                     |
| Fastening                                      | DIN rail fastening according to EN 50022-35 standard                             |
| Dimensions h x w x d (mm)                      | 99 x 22,5 x 114                                                                  |



### SAFETY LEVEL

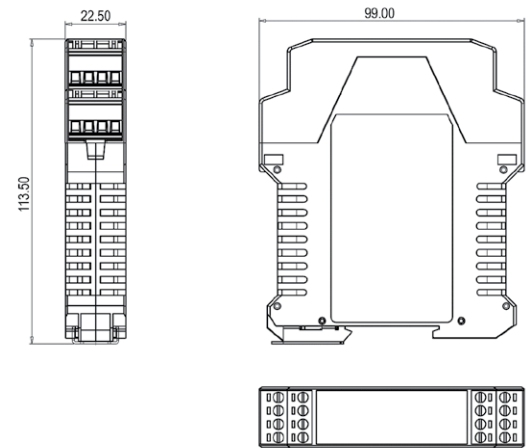
**TYPE 4**

SILCL 3 | PL e - Cat. 4

### APPROVALS



### DIMENSIONS (mm)



# Safety light curtains

Compatible interfaces

## SRS4M-2NO Type 4 safety interface with muting

### FEATURES

Safety interface module for safety light curtains SLC4 and SLC2 with integrated muting function.

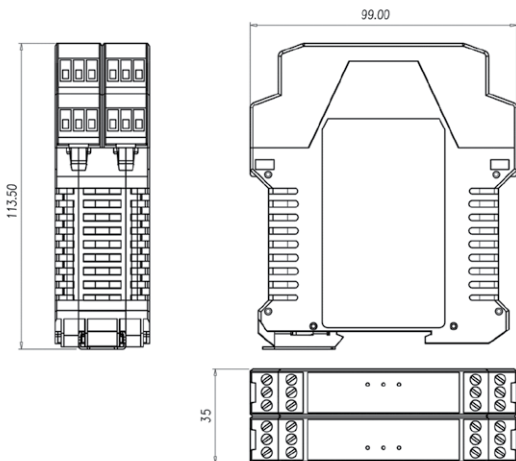
- 2 inputs for muting sensors
- Inputs for the connection of one safety light curtain with failure reduced outputs
- Guided contact safety relays
- Start/Restart interlock
- EDM feedback input for extra external contactors monitoring
- Muting time-out selectable
- Integrated override with 2 operating modes selectable
- Muting enable input

### ORDERING INFORMATION

| Description                         | Type      | Part Number |  | Pkg |
|-------------------------------------|-----------|-------------|--|-----|
| TYPE 4 SAFETY INTERFACE WITH MUTING | SRS4M-2NO | 2447935-3   |  | 1   |

### MAIN TECHNICAL DATA

|                                                |                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------|
| Muting logic                                   | L (One way) logic with 2 sensors - Crossed beams                          |
| Muting time-out                                | Selectable : 30 sec. or infinite                                          |
| Muting inputs                                  | 2 inputs 24 VDC - PNP or Relay - Dark-on                                  |
| Status display                                 | LED indication of input/output status,<br>Muting sensor inputs, diagnosis |
| Safety relay outputs                           | 2 NO - 6 A 250 VAC                                                        |
| Status output                                  | PNP -<br>0 mA at 24 VDC                                                   |
| Response time (ms)                             | ≤ 20                                                                      |
| Start/Restart command according to IEC 61496-1 | Automatic/Manual monitored selectable                                     |
| Power supply (VDC)                             | 24 ± 20%                                                                  |
| Electrical connections                         | On terminal blocks                                                        |
| Operating temperature (°C)                     | -30 to +55°C                                                              |
| Protection rating                              | IP20 for housing / IP2X for terminal blocks                               |
| Fastening                                      | DIN rail fastening according to EN 50022-35 standard                      |
| Dimensions h x w x d (mm)                      | 99 x 35 x 114                                                             |



### SAFETY LEVEL

#### TYPE 4

SILCL 3 | PL e - Cat. 4

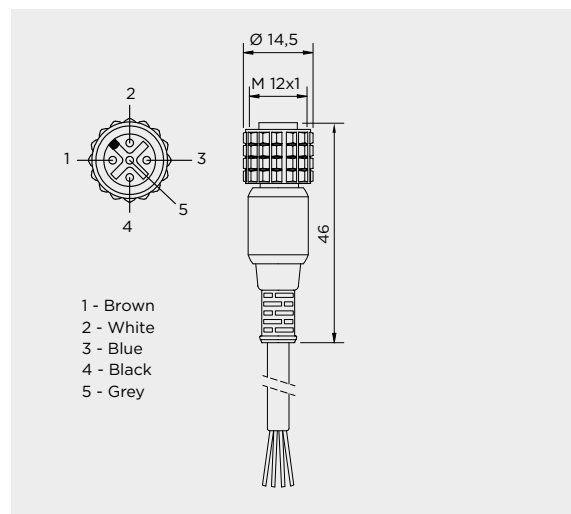
### APPROVALS



# Safety light curtains

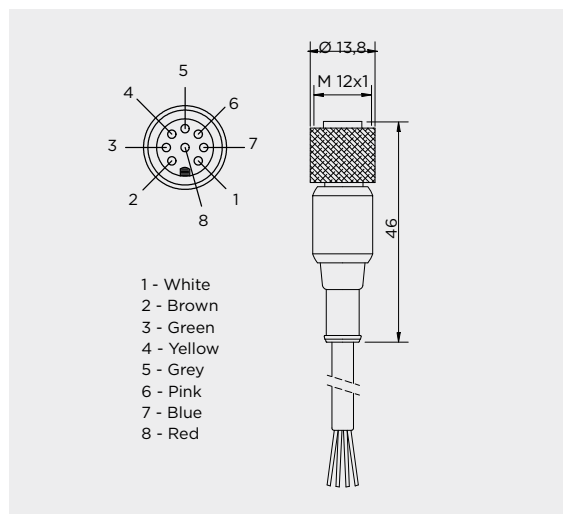
## Cables

### CONNECTORS



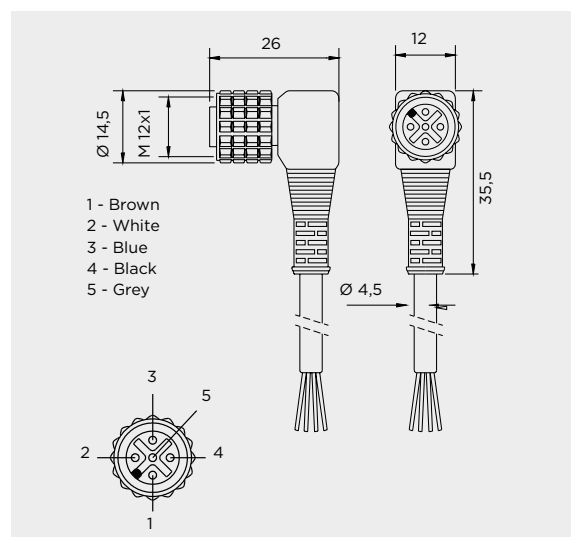
#### M12 female straight connector 5-pole

| Description          | Type            | Part Number      | Pkg |
|----------------------|-----------------|------------------|-----|
| Pre-wired cable 5 m  | SLC-FC5-M12-5P  | <b>2447912-1</b> | 1   |
| Pre-wired cable 10 m | SLC-FC10-M12-5P | <b>2447912-2</b> | 1   |
| Pre-wired cable 15 m | SLC-FC15-M12-5P | <b>2447912-3</b> | 1   |
| Pre-wired cable 20 m | SLC-FC20-M12-5P | <b>2447912-4</b> | 1   |
| Pre-wired cable 25 m | SLC-FC25-M12-5P | <b>2447912-5</b> | 1   |
| Pre-wired cable 40m  | SLC-FC40-M12-5P | <b>2447912-6</b> | 1   |
| Pre-wired cable 50 m | SLC-FC50-M12-5P | <b>2447912-7</b> | 1   |



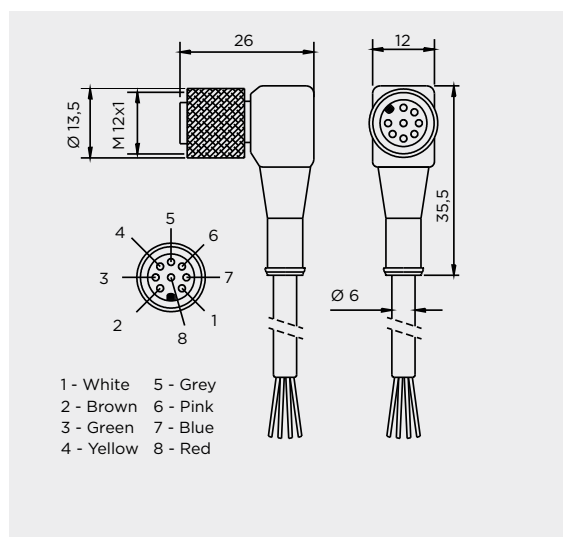
#### M12 female straight connector 8-pole

| Description          | Type            | Part Number      | Pkg |
|----------------------|-----------------|------------------|-----|
| Pre-wired cable 5 m  | SLC-FC5-M12-8P  | <b>2447913-1</b> | 1   |
| Pre-wired cable 10 m | SLC-FC10-M12-8P | <b>2447913-2</b> | 1   |
| Pre-wired cable 15 m | SLC-FC15-M12-8P | <b>2447913-3</b> | 1   |
| Pre-wired cable 20 m | SLC-FC20-M12-8P | <b>2447913-4</b> | 1   |
| Pre-wired cable 25 m | SLC-FC25-M12-8P | <b>2447913-5</b> | 1   |
| Pre-wired cable 40m  | SLC-FC40-M12-8P | <b>2447913-6</b> | 1   |
| Pre-wired cable 50 m | SLC-FC50-M12-8P | <b>2447913-7</b> | 1   |



#### M12 female 90° angle connector 5-pole

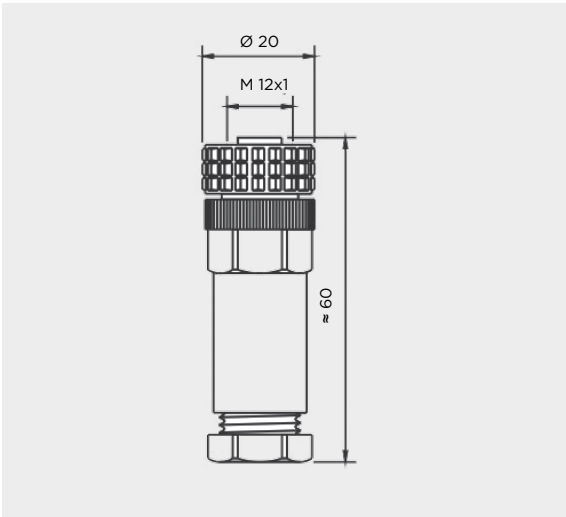
| Description          | Type               | Part Number        | Pkg |
|----------------------|--------------------|--------------------|-----|
| Pre-wired cable 5 m  | SLC-FC5-M12-90-5P  | <b>2447912-8</b>   | 1   |
| Pre-wired cable 10 m | SLC-FC10-M12-90-5P | <b>2447912-9</b>   | 1   |
| Pre-wired cable 15 m | SLC-FC15-M12-90-5P | <b>1-2447912-0</b> | 1   |



#### M12 female 90° angle connector 8-pole

| Description          | Type               | Part Number        | Pkg |
|----------------------|--------------------|--------------------|-----|
| Pre-wired cable 5 m  | SLC-FC5-M12-90-8P  | <b>2447913-8</b>   | 1   |
| Pre-wired cable 10 m | SLC-FC10-M12-90-8P | <b>2447913-9</b>   | 1   |
| Pre-wired cable 15 m | SLC-FC15-M12-90-8P | <b>1-2447913-0</b> | 1   |

Dimensions in mm

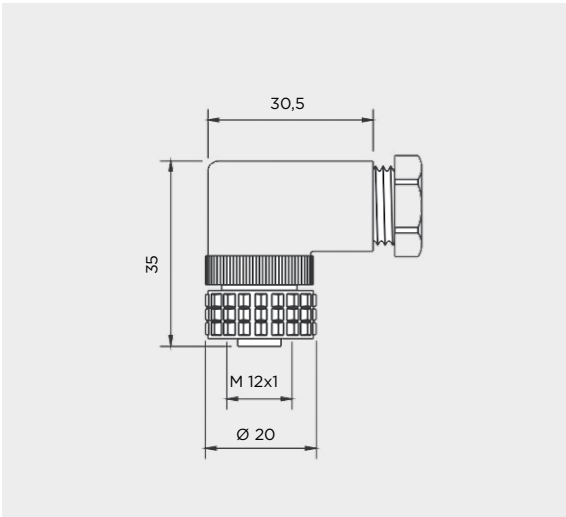


M12 female straight connector 5-pole  
screw terminal, PG9 cable gland

| Description                                      | Type              | Part Number | Pkg |
|--------------------------------------------------|-------------------|-------------|-----|
| M12 Straight connector 5 pole<br>PG9 cable gland | SLC-FC-M12-5P-CG9 | 1-2447912-1 | 1   |

M12 female straight connector 8-pole  
screw terminal, PG9 cable gland

| Description                                      | Type              | Part Number | Pkg |
|--------------------------------------------------|-------------------|-------------|-----|
| M12 Straight connector 8 pole<br>PG9 cable gland | SLC-FC-M12-8P-CG9 | 1-2447913-3 | 1   |

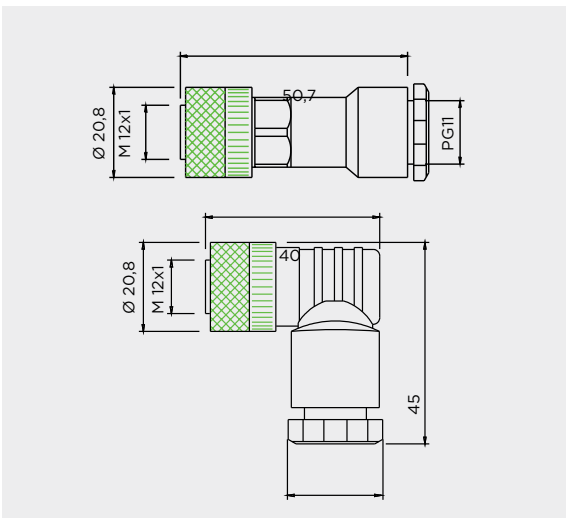


M12 female 90° angle connector 5-pole  
screw terminal, PG9 cable gland

| Description                                          | Type                 | Part Number | Pkg |
|------------------------------------------------------|----------------------|-------------|-----|
| M12 Angled (90°) connector 5 pole<br>PG9 cable gland | SLC-FC-M12-90-5P-CG9 | 1-2447912-2 | 1   |

M12 female 90° angle connector 8-pole  
screw terminal, PG9 cable gland

| Description                                          | Type                 | Part Number | Pkg |
|------------------------------------------------------|----------------------|-------------|-----|
| M12 Angled (90°) connector 8 pole<br>PG9 cable gland | SLC-FC-M12-90-8P-CG9 | 1-2447913-4 | 1   |



M12 female straight connector 8-pole  
screw terminal, PG11 cable gland

| Description                                       | Type               | Part Number | Pkg |
|---------------------------------------------------|--------------------|-------------|-----|
| M12 straight connector 8 pole<br>PG11 cable gland | SLC-FC-M12-8P-CG11 | 1-2447913-1 | 1   |

M12 female 90° angle connector 8-pole  
screw terminal, PG11 cable gland

| Description                                           | Type                  | Part Number | Pkg |
|-------------------------------------------------------|-----------------------|-------------|-----|
| M12 Angled (90°) connector 8 pole<br>PG11 cable gland | SLC-FC-M12-90-8P-CG11 | 1-2447913-2 | 1   |

Dimensions in mm

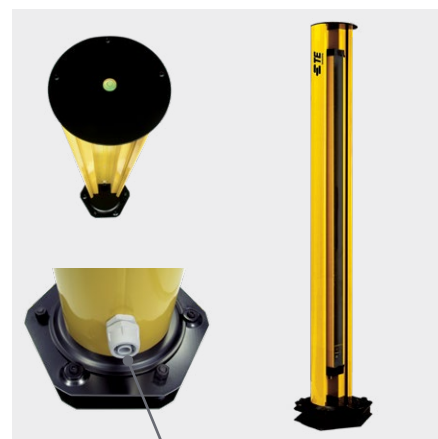
# Safety light curtains

## Columns

### SLC-FMC/ SLC-FMC-CG11 Floor support columns for light curtains

#### FEATURES

- Support columns for SLC safety light curtains, designed to provide more secure fastening to the floor, fast installation, and a simple and precise adjustment of the optical alignment of the system.
- Columns made by aluminium extrusion poles, with adjustable angular orientation. Easy assembling and disassembling of the light curtain with easy adjustment of the first beam's height.
- Built-in spirit level for a correct positioning of the vertical axis.
- Steel base with springs for a highly reliable adjustment of the column vertical axis.
- Steel foundation inserts included with the product.
- SLC-FM...CG11... models for light curtains complete with PG11 rear union for light curtain cable sheath



PG11 cable gland  
SLC-FM...CG11... Models

#### ORDERING INFORMATION

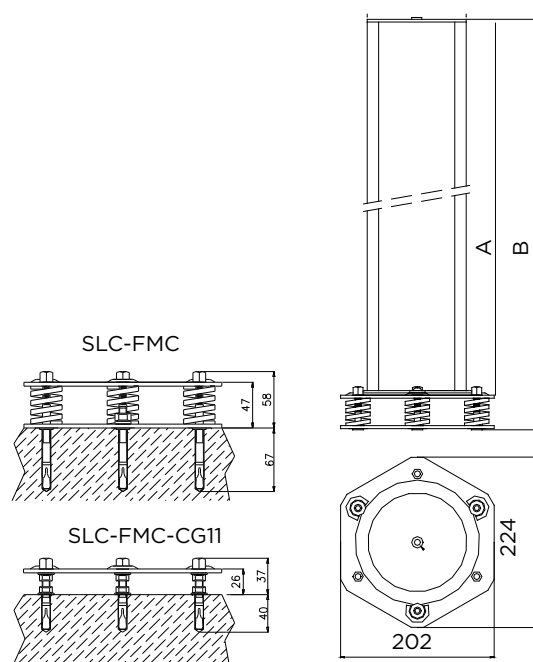
##### Columns

| A height<br>(mm) | B Overall<br>height<br>with FMC<br>CB base<br>(mm) | B Overall<br>height<br>with FMC<br>CBL base<br>(mm) | SLC-FMC models |             |                | SLC-FMC-CG11 models<br>with PG11 rear union for cable sheath |             |                |
|------------------|----------------------------------------------------|-----------------------------------------------------|----------------|-------------|----------------|--------------------------------------------------------------|-------------|----------------|
|                  |                                                    |                                                     | Type           | Part Number | Pkg<br>per box | Type                                                         | Part Number | Pkg<br>per box |
| 1000             | 1055                                               | 1037                                                | SLC-FMC2-100   | 2447915-1   | 1              | SLC-FMC2-CG11-100                                            | 2447915-7   | 1              |
| 1200             | 1255                                               | 1237                                                | SLC-FMC4-120   | 2447915-2   | 1              | SLC-FMC2-CG11-120                                            | 2447915-8   | 1              |
| 1670             | 1725                                               | 1707                                                | SLC-FMC-167    | 2447915-3   | 1              | SLC-FMC2-CG11-167                                            | 2447915-9   | 1              |
| 1970             | 2025                                               | 2007                                                | SLC-FMC-197    | 2447915-4   | 1              | SLC-FMC2-CG11-197                                            | 1-2447915-0 | 1              |
| 2100             | 2155                                               | 2137                                                | SLC-FMC-210    | 2447915-5   | 1              |                                                              |             |                |
| 2400             | 2455                                               | 2437                                                | SLC-FMC-240    | 2447915-6   | 1              |                                                              |             |                |

##### Bases for columns

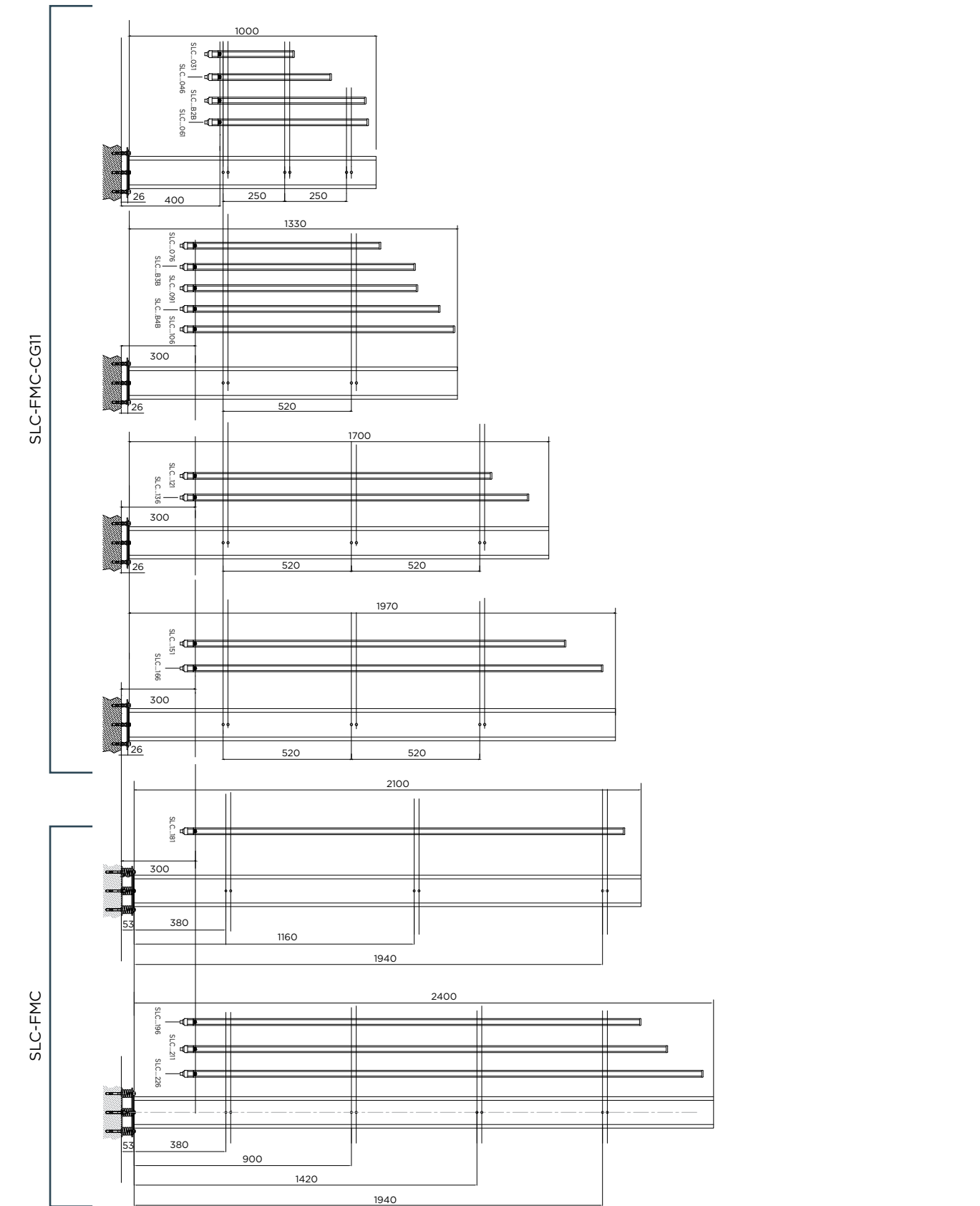
| A height<br>(mm) | Description                            | Type    | Part Number | Pkg<br>per box |
|------------------|----------------------------------------|---------|-------------|----------------|
| 55               | Base for column                        | SLC-MB  | 2447918-1   | 1              |
| 37               | Base for column with<br>reduced height | SLC-MBS | 2447918-2   | 1              |

#### DRAWING



A: column height  
B: column height  
with base SLC-FMC  
or SLC-FMC-CG11

DIMENSIONS (mm)  
Light curtains - Columns correspondence



## Safety light curtains

### Columns

## SLC-FMC2-DM/SLC-FMC2-ADM Columns with deflecting mirror

### FEATURES

- Support columns with deflecting mirrors, designed to provide more secure fastening to the floor, fast installation, and a simple and precise adjustment of the optical alignment of the system.
- SLC-FMC2-DM models with pre-assembled deflecting mirrors, allow perimeter protections of up to 4 sides.
- SLC-FMC2-ADM models with pre-installed independent adjustable deflecting mirrors for safety light grids with 2, 3 and 4 beams. For applications with multiple sides and/or with a large protected perimeter the use of these models is recommended
- Optical power reduction factor: 15% for each mirror.
- Special models equipped with mirror with protective anti-fragmentation film available on request.



SLC-FMC2-DM / SLC-FMC2-ADM

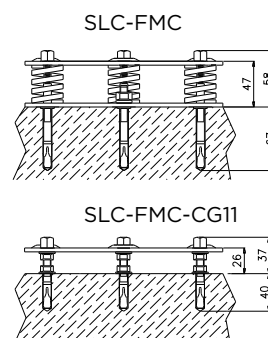
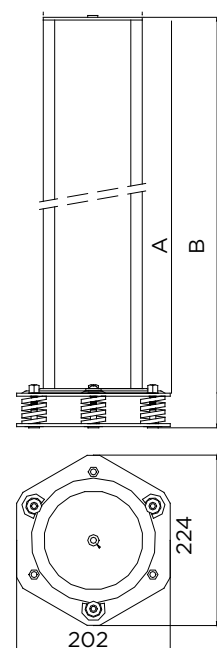
### ORDERING INFORMATION

#### Columns

| A - height (mm) | B - Overall height with SLC-FMC base (mm) | B - Overall height with SLC-FMC-CG11 base (mm) | Description                                                              | Type            | Part Number | Pkg per box |
|-----------------|-------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------|-----------------|-------------|-------------|
| 1000            | 1055                                      | 1037                                           | Single mirror for 2 beams, controlled height up to 700 mm light curtains | SLC-FMC2-DM-100 | 2447916-1   | 1           |
| 1200            | 1255                                      | 1237                                           | Single mirror for 3 beams, controlled height up to 900 mm light curtains | SLC-FMC2-DM-120 | 2447916-2   | 1           |
| 1330            | 1385                                      | 1367                                           | Single mirror for 4 beams, controlled height up to 900 mm light curtains | SLC-FMC2-DM-133 | 2447916-3   | 1           |
| 1670            | 1725                                      | 1707                                           | Single mirror for controlled height up to 1360 mm                        | SLC-FMC2-DM-167 | 2447916-4   | 1           |
| 1970            | 2025                                      | 2007                                           | Single mirror for controlled height up to 1660 mm                        | SLC-FMC2-DM-197 | 2447916-5   | 1           |
| 2180            | 2235                                      | 2217                                           | Single mirror for controlled height up to 1800 mm                        | SLC-FMC2-DM-217 | 2447916-6   | 1           |

| A - height (mm) | B - Overall height with SLC-FMC base (mm) | B - Overall height with SLC-FMC-CG11 base (mm) | Description                          | Type             | Part Number | Pkg per box |
|-----------------|-------------------------------------------|------------------------------------------------|--------------------------------------|------------------|-------------|-------------|
| 1000            | 1055                                      | 1037                                           | 2 mirrors for 2 beams light curtains | SLC-FMC2-ADM-100 | 2447916-7   | 1           |
| 1200            | 1255                                      | 1237                                           | 3 mirrors for 3 beams light curtains | SLC-FMC2-ADM-120 | 2447916-8   | 1           |
| 1330            | 1385                                      | 1367                                           | 4 mirrors for 4 beams light curtains | SLC-FMC2-ADM-133 | 2447916-9   | 1           |

### DIMENSIONS\* (mm)



A: column height  
B: column height with base SLC-FMC or SLC-FMC-CG11

(\*) The column part number does not include the base which must be ordered separately (SLC models).

### SLC-SLC-MP Deflecting mirror

#### FEATURES

- The SLC-SLC-MP deflecting mirrors allow to create perimeter protection of areas with access points on multiple sides, with a considerable reduction of costs.
- This solution significantly reduces the need to use multiple safety light curtains allowing perimeter protection of up to 4 sides.
- Section bar: extruded aluminium
- Mirror pre-fitted with heights: 250 to 1900 mm
- Angular orientation: adjustable using supplied brackets
- Optical power reduction factor: 15% (for each mirror)



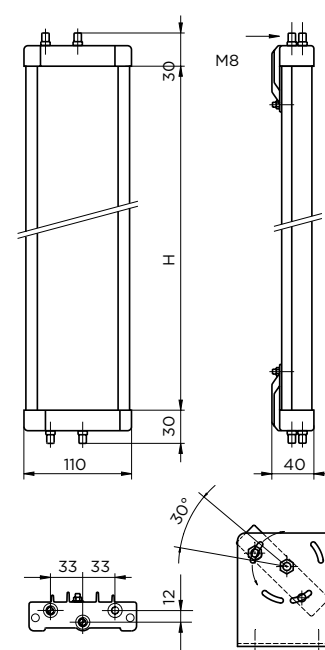
#### ORDERING INFORMATION

| Height H in picture (mm) | For light curtains with protected height (mm) | For light grids with | Description                          | Type           | Part Number | Pkg per box |
|--------------------------|-----------------------------------------------|----------------------|--------------------------------------|----------------|-------------|-------------|
| 250                      | 160                                           | -                    | Deflecting mirror for light curtains | SLC-SLC-MP-016 | 2447917-1   | 1           |
| 370                      | 250                                           | -                    |                                      | SLC-SLC-MP-025 | 2447917-2   | 1           |
| 400                      | 310                                           | -                    |                                      | SLC-SLC-MP-031 | 2447917-3   | 1           |
| 540                      | 460                                           | -                    |                                      | SLC-SLC-MP-046 | 2447917-4   | 1           |
| 715                      | 610                                           | 2 beams              |                                      | SLC-SLC-MP-061 | 2447917-5   | 1           |
| 885                      | 760                                           | -                    |                                      | SLC-SLC-MP-076 | 2447917-6   | 1           |
| 1065                     | 910                                           | 3 beams              |                                      | SLC-SLC-MP-091 | 2447917-7   | 1           |
| 1230                     | 1060                                          | 4 beams              |                                      | SLC-SLC-MP-106 | 2447917-8   | 1           |
| 1400                     | 1210                                          | -                    |                                      | SLC-SLC-MP-121 | 2447917-9   | 1           |
| 1450                     | 1360                                          | -                    |                                      | SLC-SLC-MP-136 | 1-2447917-0 | 1           |
| 1570                     | 1440                                          | -                    |                                      | SLC-SLC-MP-144 | 1-2447917-1 | 1           |
| 1600                     | 1510                                          | -                    |                                      | SLC-SLC-MP-151 | 1-2447917-2 | 1           |
| 1750                     | 1660                                          | -                    |                                      | SLC-SLC-MP-166 | 1-2447917-3 | 1           |
| 1900                     | 1810                                          | -                    |                                      | SLC-SLC-MP-181 | 1-2447917-4 | 1           |

The following rules should be taken into consideration when using deflecting mirrors:

- Total working distance (range) given by the sum of the lengths of all sides giving access to the protected area
- Each mirror used will decrease the maximum working range between the Emitter and the Receiver by 15%
- In order to help ensure compliance mirrors must be placed at the minimum safety distance on each side from the danger zone
- The use of the SLC laser alignment device is recommended for a quick and reliable alignment of the system especially when using longer range light curtains or grids

#### DIMENSIONS (mm)



## Safety light curtains

### Brackets

#### SLC-B4 / SLC-B6 - Swivel brackets

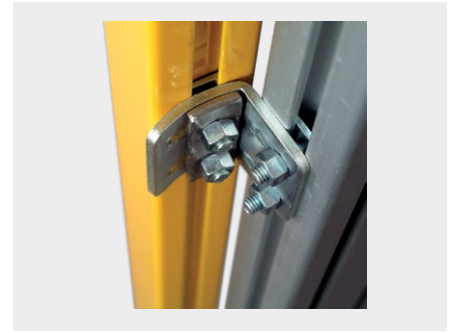
##### FEATURES

- The SLC-B4 / SLC-B6 swivel brackets allow the rotation of the light curtain around its longitudinal axis, as well as the adjustment of its vertical and horizontal position.
- The use of the SLC-B4 / SLC-B6 swivel brackets is recommended to align those light curtains which are employed in applications having a long range or using deflecting mirrors.

##### ORDERING INFORMATION

| Description                                                  | Type   | Part Number |  | Pkg |
|--------------------------------------------------------------|--------|-------------|--|-----|
| Set of 4 swivel brackets for SLCs with length $\leq 1200$ mm | SLC-B4 | 2447914-1   |  | 1   |
| Set of 6 swivel brackets for SLC with length $\geq 1200$ mm  | SLC-B6 | 2447914-2   |  | 1   |

\* One set must be ordered for each pair of light curtain (emitter + receiver)



#### SLC-B4-180 - 180° swivel brackets

##### FEATURES

- The SLC-B4-180 swivel brackets allow the 180° rotation of the light curtain around its longitudinal axis, as well as the adjustment of its vertical and horizontal position.
- The use of the SLC-B4-180 swivel brackets is recommended to align those light curtains which are employed in applications having a long range or using deflecting mirrors.

##### ORDERING INFORMATION

| Description                           | Type       | Part Number |  | Pkg |
|---------------------------------------|------------|-------------|--|-----|
| Set of 4 180° swivel brackets for SLC | SLC-B4-180 | 2447914-3   |  | 1   |

\* One set must be ordered for each pair of light curtain (emitter + receiver)



#### SLC-BFLAT4 - Flat brackets

##### FEATURES

- The SLC-BFLAT4 brackets, with a thickness of only 4 mm, allow proper fastening of SLC light curtains.

##### ORDERING INFORMATION

| Description                    | Type       | Part Number |  | Pkg |
|--------------------------------|------------|-------------|--|-----|
| Set of 4 flat brackets for SLC | SLC-BFLAT4 | 2447914-7   |  | 1   |

\* One set must be ordered for each pair of light curtain (emitter + receiver)



#### SLC-BF - Fast coupling brackets

##### FEATURES

- The SLC-BF 4 brackets, with a thickness of only 4 mm, allow proper fastening of SLC light curtains.

##### ORDERING INFORMATION

| Description                     | Type       | Part Number |  | Pkg |
|---------------------------------|------------|-------------|--|-----|
| Set of 2 fast-coupling brackets | SLC-BF2    | 2447914-4   |  | 1   |
| Set of 4 fast-coupling brackets | SLC-BFAST4 | 2447914-5   |  | 1   |

\* One set must be ordered for each pair of light curtain (emitter + receiver)



## Safety light curtains

### Other accessories

## SLC-LASER - Laser alignment device

### FEATURES

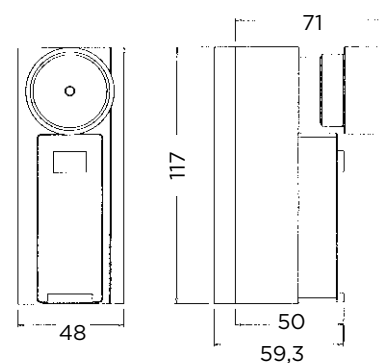
- SLC-LASER laser alignment device allows a fast and reliable optical alignment of safety light curtains; also compatible with the use of the SLC-MB floor mounting columns
- SLC-LASER devices emit a laser beam with visible red light with useful range up to 100 m
- The use is recommended for aligning light curtains that operate over long distances or multiple sides with the use of deflecting mirrors
- Light source: laser diode - wavelength 650 nm
- Class light source II - EN 60825-1
- Range (m): 100
- Beam divergence (mrd) < 0.5
- Max. power (mW): 1
- Power supply (VDC): 3 (2 AAA batteries)
- Fastening quick fastening to the light curtains
- Dimensions h x w x d (mm): 117 x 48 x 80

### ORDERING INFORMATION

| Description            | Type      | Part Number |  | Pkg |
|------------------------|-----------|-------------|--|-----|
| Laser alignment device | SLC-LASER | 2447921-1   |  | 1   |



### DIMENSIONS (mm)



## SLC-VD4 / SLC-VD8 / SAV 12 - Vibration dampers

### FEATURES

- The SLC-VD vibration dampers have been designed to significantly reduce mechanical damage to the light curtains installed in those applications with a high level of vibrations.
- The unprotected light curtains might feel the vibrations produced by e.g. presses, weaving machines, etc.

### ORDERING INFORMATION

| Description                 | For light curtains with protected height (mm) / beams | Type     | Part Number |  | Pkg |
|-----------------------------|-------------------------------------------------------|----------|-------------|--|-----|
| Set of 4 vibration dampers  | 160                                                   | SLC-VD4  | 2447922-1   |  | 1   |
| Set of 8 vibration dampers  | 310 to 1050                                           | SLC-VD8  | 2447922-2   |  | 1   |
| Set of 12 vibration dampers | 1210 to 1810/2, 3, 4                                  | SLC-VD12 | 2447922-3   |  | 1   |

\* One set must be ordered for each pair of light curtain (emitter + receiver)



## Safety light curtains

### Other accessories

## SLCPS-F/SLC-PS - Protective screens

### FEATURES

- SLC-PS is a polycarbonate protective screen that helps ensure the light curtain's front screen from damages due to welding sparks or due to the presence of acids in the workspace.
- Protective screens can be quickly replaced thanks to the fast and easy stainless steel clamping system.

### ORDERING INFORMATION

| Light curtain length (mm) | Description                                                                         | Type       | Part Number |  | Pkg |
|---------------------------|-------------------------------------------------------------------------------------|------------|-------------|--|-----|
| 150                       | 4 protective screen (2 as spare parts)                                              | SLC-PS-015 | 2447920-2   |  | 1   |
| 300                       |                                                                                     | SLC-PS-030 | 2447920-3   |  | 1   |
| 450                       |                                                                                     | SLC-PS-045 | 2447920-4   |  | 1   |
| 600                       |                                                                                     | SLC-PS-060 | 2447920-5   |  | 1   |
| 750                       |                                                                                     | SLC-PS-075 | 2447920-6   |  | 1   |
| 900                       |                                                                                     | SLC-PS-090 | 2447920-7   |  | 1   |
| 1050                      |                                                                                     | SLC-PS-105 | 2447920-8   |  | 1   |
| 1200                      |                                                                                     | SLC-PS-120 | 2447920-9   |  | 1   |
| 1350                      |                                                                                     | SLC-PS-135 | 1-2447920-0 |  | 1   |
| 1500                      |                                                                                     | SLC-PS-150 | 1-2447920-1 |  | 1   |
| 1650                      |                                                                                     | SLC-PS-165 | 1-2447920-2 |  | 1   |
| 1800                      |                                                                                     | SLC-PS-180 | 1-2447920-3 |  | 1   |
| 2 beams                   |                                                                                     | SLC-PS-2B  | 1-2447920-4 |  | 1   |
| 3 beams                   |                                                                                     | SLC-PS-3B  | 1-2447920-5 |  | 1   |
| 4 beams                   |                                                                                     | SLC-PS-4B  | 1-2447920-6 |  | 1   |
|                           | 1 set of stainless steel clamps for one safety light curtain (emitter and receiver) | SLC-PS-F   | 2447920-1   |  | 1   |

\*For each pairs of safety light curtain (emitter and receiver) it is necessary to order both codes.



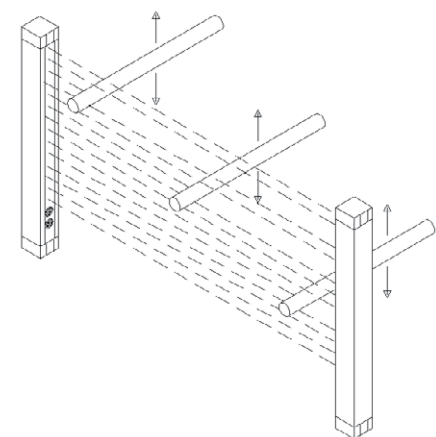
## SLC-TR - Test rods

### FEATURES

- The test rod is an opaque cylinder used after the installation of a safety light curtain to verify that no beams are bypassed due to the presence of reflecting surfaces.
- The test is carried out by slowly moving the test rod ( $\varnothing$  = resolution) in the centre and then along each side of the protected area. During this procedure the green led on the receiver must always remain in the off state.

### ORDERING INFORMATION

| Diameter | Type      | Part Number |  | Pkg |
|----------|-----------|-------------|--|-----|
| Ø 14 mm  | SLC-TR 14 | 2447919-1   |  | 1   |
| Ø 20 mm  | SLC-TR 20 | 2447919-2   |  | 1   |
| Ø 30 mm  | SLC-TR 30 | 2447919-3   |  | 1   |
| Ø 40 mm  | SLC-TR 40 | 2447919-4   |  | 1   |
| Ø 50 mm  | SLC-TR 50 | 2447919-5   |  | 1   |



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