



## SLC 420-E/R0970-50-RFB

- Protection class IP67
- Resolution 14, 30 and 50 mm
- Safety type 4 in accordance with IEC 61496-1
- Protection field height from 170 mm ... 1770 mm

### Data

#### Ordering data

SLC 420-E/R0970-50-RFB

101207072

eCl@ss number, Version 9.0

27-27-27-04

#### Approval - Standards

TÜV

cULus

EAC

#### General data

Product name SLC 420 Safety light curtain

IEC/EN 61496-1/-2

Enclosure material Aluminium

Gross weight 3,890 g

Reaction time, maximum 10 ms

#### General data - Features

Restart interlock (manual reset) Yes

Beam coding available Yes

Hide function Yes

Integral System Diagnostics, status Yes

Integral System Diagnostics Yes

Number of beams 24

Number of fail-safe digital outputs 2

## Safety appraisal

|                                                 |                          |
|-------------------------------------------------|--------------------------|
|                                                 | ISO 13849-1              |
|                                                 | IEC 61508                |
| Performance level, up to                        | e                        |
| Control category to EN13849                     | 4                        |
| PFH-value                                       | $6.19 \times 10^{-9}$ /h |
| Safety Integrity Level (SIL),<br>applicable for | 3                        |
| Mission Time                                    | 20 Year(s)               |
| Safety type in accordance with IEC<br>61496-1   | 4                        |

## Mechanical data

|                                                     |           |
|-----------------------------------------------------|-----------|
| Detection ability for test bodies at v<br>= 1.6 m/s | 50 mm     |
| Range, protection field, minimum                    | 300 mm    |
| Range, protection field, maximum                    | 10,000 mm |
| Height of the protection field                      | 970 mm    |
| Wave length of the sensor                           | 880 nm    |

## Mechanical data - Connection technique

|                                             |                            |
|---------------------------------------------|----------------------------|
| Terminal Connector                          | Connector                  |
| Terminal connector, Recipient               | Connector plug M12, 8-pole |
| Terminal, Connector, Transmitter            | Connector plug M12, 4-pole |
| Length of the connectable cable,<br>maximum | 100 m                      |

## Mechanical data - Dimensions

|                    |          |
|--------------------|----------|
| Diameter of sensor | 49 mm    |
| Height of sensor   | 1,055 mm |

## Ambient conditions

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Protection class                              | IP 67 to IEC/EN 60529 |
| Ambient temperature, minimum                  | -10 °C                |
| Ambient temperature, maximum                  | +50 °C                |
| Storage and transport temperature,<br>minimum | -25 °C                |
| Storage and transport temperature,<br>maximum | +70 °C                |
|                                               | III                   |

## Electrical data

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Voltage type                                    | DC (direct current) |
| Switching voltage OSSD, HIGH signal             | 24 V                |
| Electrical power consumption of the receiver    | 8 W                 |
| Electrical power consumption of the transmitter | 4 W                 |

## Electrical data - Fail-safe digital outputs

|                                             |        |
|---------------------------------------------|--------|
| Output current, (fail-safe output), maximum | 0.5 A  |
| Versions                                    | p-type |

## Scope of delivery

|                      |                            |
|----------------------|----------------------------|
| Included in delivery | Kit with 2 mounting angles |
|----------------------|----------------------------|

## Accessory

SRB-E 301

## Notes

|                |                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------|
| Note (General) | $I_{\text{m}}$ In case of failure (interruption of the 0 V supply) the maximum leakage current is 1 mA. |
|----------------|---------------------------------------------------------------------------------------------------------|

## Ordering code

Product type description:

SLC 420-E/R(1)-(2)-RFB-(3)(4)

(1)

**0170** Protection field height 170 mm

**0250** Protection field height 250 mm

**0330** Protection field height 330 mm

**0410** Protection field height 410 mm

**0490** Protection field height 490 mm

**0570** Protection field height 570 mm

**0650** Protection field height 650 mm

**0730** Protection field height 730 mm

**0810** Protection field height 810 mm

**0890** Protection field height 890 mm

**0970** Protection field height 970 mm

**1050** Protection field height 1050 mm  
**1130** Protection field height 1130 mm  
**1210** Protection field height 1210 mm  
**1290** Protection field height 1290 mm  
**1370** Protection field height 1370 mm  
**1450** Protection field height 1450 mm  
**1530** Protection field height 1530 mm (only for resolution 30 mm, 50 mm)  
**1610** Protection field height 1610 mm (only for resolution 30 mm, 50 mm)  
**1690** Protection field height 1690 mm (only for resolution 30 mm, 50 mm)  
**1770** Protection field height 1770 mm (only for resolution 30 mm, 50 mm)

(2)

**14** Resolution 14 mm  
**30** Resolution 30 mm  
**50** Resolution 50 mm

(3)

**without** Included in standard version

**M** master

**S** Slave (for protection field heights from 170 to 650 mm only)

(4)

**without** Range 0.3 m ... 7 m (only for resolution 14 mm)

**without** Range 0.3 m ... 10 m (only for resolution 30 mm, 50 mm)

**H** Range 0.3 m ... 18 m (only for resolution 30 mm)

## Pictures

### Photo/Product/Catalogue



ID: kslc4f20

| 67,9 kB | .png | 74.083 x 179.564 mm - 210 x 509

Pixel - 72 dpi

| 687,4 kB | .jpg | 257.528 x 625.122 mm - 730 x 1772

Pixel - 72 dpi

### Dimension/Product/Basic



ID: 1slc4g03

| 65,5 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695  
Pixel - 72 dpi

| 5,7 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

| 52,1 kB | .cdr |

#### Graphic/Product/PIN



ID: km12-k4b

| 16,9 kB | .cdr |

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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