



## SLC 420-E/R0410-14-69-RFB

- Protection class IP69K
- Resolution 14 mm and 30 mm
- Safety type 4 in accordance with IEC 61496-1
- Protection field height from 170 mm ... 1450 mm

### Data

#### Ordering data

SLC 420-E/R0410-14-69-RFB

101207006

eCl@ss number, Version 9.0

27-27-27-04

#### Approval - Standards

TÜV

cULus

EAC

#### General data

|                        |                                     |
|------------------------|-------------------------------------|
| Product name           | SLC 420 IP 69K Safety light curtain |
|                        | IEC/EN 61496-1/-2                   |
| Enclosure material     | Aluminium                           |
| Gross weight           | 3,090 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                     | 40  |
| 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 | 14 mm    |
| Range, protection field, minimum                    | 300 mm   |
| Range, protection field, maximum                    | 7,000 mm |
| Height of the protection field                      | 410 mm   |
| Wave length of the sensor                           | 880 nm   |

## Mechanical data - Connection technique

|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| Terminal Connector                          | Connector                             |
| Length of cable                             | 5 m                                   |
| Terminal connector, Recipient               | Cable with connector plug M12, 8-pole |
| Terminal, Connector, Transmitter            | Cable with connector plug M12, 4-pole |
| Length of the connectable cable,<br>maximum | 100 m                                 |

## Mechanical data - Dimensions

|                    |        |
|--------------------|--------|
| Diameter of sensor | 60 mm  |
| Height of sensor   | 507 mm |

## Ambient conditions

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Protection class                              | IP69K 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)-69-RFB

(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

(2)

**14** Resolution 14 mm (Range 0.3 ...) 7 m  
**30** Resolution 30 mm (Range 0.3 ...) 10 m

## Pictures

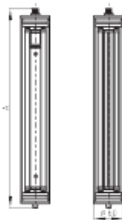
### Photo/Product/Catalogue



ID: kslc2f02

| 549,9 kB | .jpg | 315.736 x 750.006 mm - 895 x 2126  
Pixel - 72 dpi  
| 43,1 kB | .png | 74.083 x 175.683 mm - 210 x 498  
Pixel - 72 dpi

### Dimension/Product/Basic



ID: 1slc2g05

| 2,5 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi  
| 71,6 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695  
Pixel - 72 dpi  
| 91,4 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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