



## SLC 420-E/R1770-30-RFBM

- 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/R1770-30-RFBM

101206717

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

Master- or Slave-function master

Enclosure material Aluminium

Gross weight 6,870 g

Reaction time, maximum 20 ms

#### General data - Features

Cascadable Yes

Restart interlock (manual reset) Yes

Beam coding available Yes

Hide function Yes

Integral System Diagnostics, status Yes

Integral System Diagnostics Yes

Number of beams 88

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), applicable for 3

Mission Time 20 Year(s)

Safety type in accordance with IEC 61496-1 4

### Mechanical data

Detection ability for test bodies at  $v = 1.6$  m/s 30 mm

Range, protection field, minimum 300 mm

Range, protection field, maximum 10,000 mm

Height of the protection field 1,770 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, maximum 100 m

### Mechanical data - Dimensions

Diameter of sensor 49 mm

Height of sensor 1,855 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, minimum -25 °C

Storage and transport temperature, 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                 |
| Cable length (Master/Slave), maximum            | 3 m                 |

## 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)

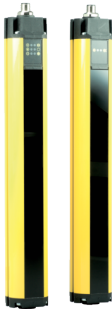
- without** Included in standard version
- M** master
- S** Slave (for protection field heights from 170 to 650 mm only)

(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**

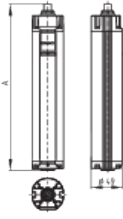


ID: kslc4f20

| 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**



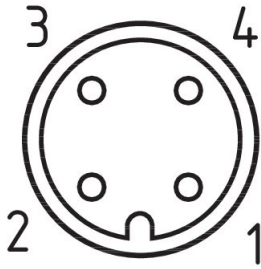
ID: 1slc4g03

| 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 |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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