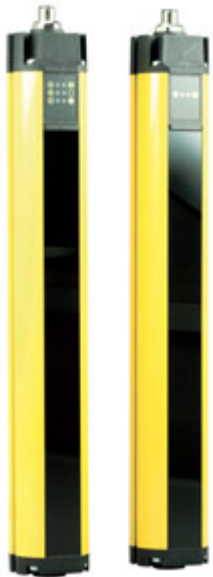


## Datasheet - SLG 420-E/R0900-04-RFH

Safety light curtains, Safety light grids / Safety light grids / SLG 420



(Minor differences between the printed image and the original product may exist!)

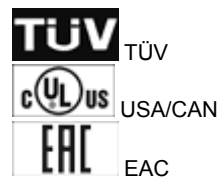
- Protection class IP67
- Safety type 4 in accordance with IEC 61496-1

### Ordering details

Product type description	SLG 420-E/R0900-04-RFH
Article number	101207364
EAN Code	4030661377872
eCl@ss	27-27-27-03

### Approval


Approval



### Classification

Standards	EN ISO 13849-1, IEC 61508
PL	up e
Control category	up 4
PFH value	$7.42 \times 10^{-9}$ /h
SIL	up 3
Mission time	20 Years

### Global Properties

Permanent light	SLG 420 Sicherheits-Lichtvorhang
Standards	IEC/EN 61496-1/-2
Compliance with the Directives (Y/N) 	Yes
Operating resource protection class	Protection class 3
Safety type in accordance with IEC 61496-1	4
Materials	
- Material of the housings	Aluminium
Weight	
Beam coding (Y/N)	Yes
Protection field height	900
Range of the protection field	8000 - 50.000
Reaction time	10
Wave length of the sensors	880
Fade-out is possible (Y/N)	No
Override possible (Y/N)	No
reduced resolution (Y/N)	No
Clock control possible (Y/N)	No
Muting possible (Y/N)	No
Restart block (Y/N)	Yes
Master/slave function	No
Cascadable (Y/N)	No
Monitoring function of downstream devices (Y/N)	Yes
Recommended safety-monitoring module	SRB301ST SCR 211

## Mechanical data

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Detection ability for test bodies	900
Number of beams	4
Design of electrical connection	Connector
- Wiring of the transmitter	connector plug M12, 4-pole
- Wiring of the receiver	connector plug M12, 8-pole
Cable length	100

## Ambient conditions

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Ambient temperature	
- Min. environmental temperature	-25
- Max. environmental temperature	+50
Storage and transport temperature	
- Min. Storage and transport temperature	-25
- Max. Storage and transport temperature	+70
Protection class	IP67 to IEC/EN 60529

## Electrical data

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Design of output switching element OSSD	PNP
Power consumption	
- Power consumption Transmitter	4
- Power consumption Receiver	8
Voltage type	DC
Switching voltage of the OSSD in high state	24 V ± 20%

## Outputs

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Max. output current at secured output	500
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### Electrical data - Safety outputs

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Number of secure semi-conductor outputs	2
Number of secure outputs with contact	0

### LED switching conditions display

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LED switching conditions display (Y/N)	Yes
- Status and diagnostics	Yes
- 7-segment display	

### ATEX

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Explosion protection categories for gases	None
Explosion protected category for dusts	None

### Dimensions

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Dimensions of the sensor	
- Height of transmitter	1060
- Height of Receiver	1075
- Diameter of sensor	49

### notice

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In case of failure (interruption of the 0 V supply) the maximum leakage current is 1 mA.

### Included in delivery

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Delivery scope of disposable system	Transmitter + receiver, Mounting angle
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### Ordering code

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SLG 420-E/R(1)-(2)-RF(3)

(1)

**0500-02**

Distance between outermost beams 500 mm, 2-beam

**0800-03**

Distance between outermost beams 800 mm, 3-beam

**0900-04**

Distance between outermost beams 900 mm, 4-beam

(2)

*without*

Protection class IP67

**69**

Protection class IP69K

(3)

*without*

Range 0,3 m ... 10 m

**H**

Range 8 m ... 40 m

### Documents

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Operating instructions and Declaration of conformity (es) 530 kB, 12.12.2016

Code: mrl\_slc420slg420\_es

**Operating instructions and Declaration of conformity** (nl) 573 kB, 31.07.2018

Code: mrl\_slc420slg420\_nl

**Operating instructions and Declaration of conformity** (br) 524 kB, 18.12.2018

Code: ACE\_mrl\_slc420slg420\_br

**Operating instructions and Declaration of conformity** (fr) 533 kB, 03.01.2017

Code: mrl\_slc420slg420\_fr

**Operating instructions and Declaration of conformity** (pt) 528 kB, 09.03.2017

Code: mrl\_slc420slg420\_pt

**Operating instructions and Declaration of conformity** (it) 525 kB, 12.06.2017

Code: mrl\_slc420slg420\_it

**Operating instructions and Declaration of conformity** (en) 676 kB, 27.09.2016

Code: mrl\_slc420slg420\_en

**Operating instructions and Declaration of conformity** (pl) 554 kB, 02.02.2017

Code: mrl\_slc420slg420\_pl

**Operating instructions and Declaration of conformity** (de) 676 kB, 27.09.2016

Code: mrl\_slc420slg420\_de

**BG-test certificate** (de, en) 474 kB, 29.10.2015

Code: z\_slcp01

**Brochure** (it) 2 MB, 01.03.2018

Code: b\_optoshort\_it

**Brochure** (pt) 2 MB, 26.10.2018

Code: b\_optoshort\_pt

**Brochure** (es) 2 MB, 23.10.2018

Code: b\_optoshort\_es

**Brochure** (fr) 2 MB, 20.11.2018

Code: b\_optoshort\_fr

**Brochure** (en) 2 MB, 23.10.2018

Code: b\_optoshort\_en

**Brochure** (pl) 2 MB, 03.08.2018

Code: b\_optoshort\_pl

**Brochure** (de) 2 MB, 22.10.2018

Code: b\_optoshort\_de

**EAC certification** (ru) 772 kB, 05.10.2015

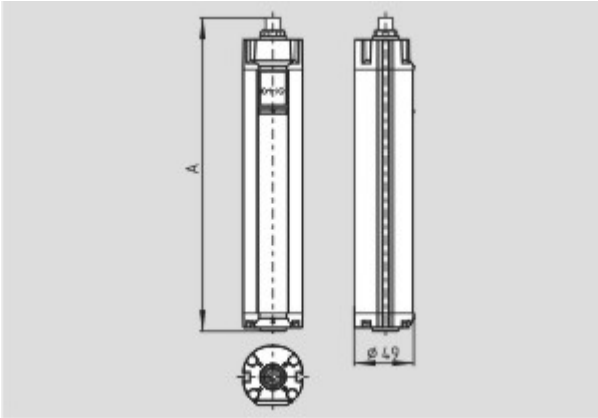
Code: q\_6395p17\_ru

**EAC certification** (ru) 1 MB, 15.03.2018

Code: q\_slbp01

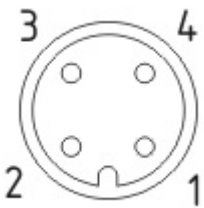
## Images

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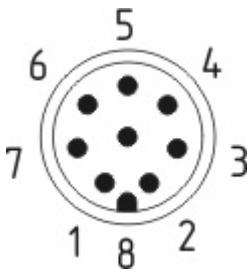
Dimensional drawing (basic component)

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Contact arrangement

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Contact arrangement

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## System components

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### Safety control modules



#### SRB301ST

- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks
  - Suitable for signal processing of outputs connected to potentials (AOPDs), e.g. safety light grids/curtains
  - Fit for signal evaluation of outputs of safety magnetic switches
  - 3 safety contacts, STOP 0
  - 1 Signalling output
- 



#### SRB 301LC/B

- Fit for signal evaluation of outputs of safety magnetic switches (to this end, integrated current and voltage limiters)
- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks
- Suitable for signal processing of outputs connected to potentials (AOPDs), e.g. safety light grids/curtains
- 3 safety contacts, STOP 0
- 1 Signalling output

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## Connector



### KA-08

- for Transmitter
- Pre-wired cable
- 4-pole
- for SLC/SLG



### KA-09

- Pre-wired cable
- 8-pole
- for SLC/SLG

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## Configuration software



### 103010773 - SLC4V430

- Configuration software

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K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal

The data and values have been checked thoroughly. Technical modifications and errors excepted.

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