

Datasheet - SLG 425I-E/R0900-04-RF

Safety light curtains, Safety light grids / Safety light grids / SLG 425I



- Protection class IP67
- Safety type 4 in accordance with IEC 61496-1
- 2-, 3-, 4-beam
- Range from 0,3 m ... 18 m

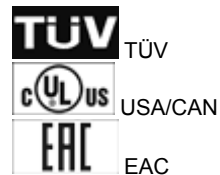
(Minor differences between the printed image and the original product may exist!)

Ordering details

| | |
|--------------------------|------------------------|
| Product type description | SLG 425I-E/R0900-04-RF |
| Article number | 101207665 |
| EAN Code | 4030661378381 |
| 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 425I 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 | 3700 |
| Beam coding (Y/N) | Yes |
| Protection field height | 900 |
| Range of the protection field | 300 - 18000 |
| Reaction time | 15 |
| Wave length of the sensors | 880 |
| Fade-out is possible (Y/N) | No |
| Override possible (Y/N) | Yes |
| reduced resolution (Y/N) | No |
| Clock control possible (Y/N) | No |
| Muting possible (Y/N) | Yes |
| 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

| | |
|-----------------------------------|----------------------------|
| 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

| | |
|--|----------------------|
| Ambient temperature | |
| - Min. environmental temperature | -10 |
| - 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

| | |
|---|------------|
| 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

| | |
|---------------------------------------|-----|
| Max. output current at secured output | 500 |
|---------------------------------------|-----|

Electrical data - Safety outputs

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

LED switching conditions display

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

ATEX

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

Dimensions

| | |
|--------------------------|------|
| Dimensions of the sensor | |
| - Height of transmitter | 1124 |
| - Height of Receiver | 1188 |
| - Diameter of sensor | 49 |

notice

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

Included in delivery

| | |
|-------------------------------------|--|
| Delivery scope of disposable system | Transmitter + receiver, Mounting angle |
|-------------------------------------|--|

Ordering code

SLG 425I-E/R(1)-RFBC

(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 |

Documents

Operating instructions and Declaration of conformity (pt) 461 kB, 04.09.2012

Code: mrl_slg425i_pt

Operating instructions and Declaration of conformity (es) 448 kB, 21.08.2012

Code: mrl_slg425i_es

Operating instructions and Declaration of conformity (nl) 455 kB, 06.11.2012

Code: mrl_slg425i_nl

Operating instructions and Declaration of conformity (en) 614 kB, 25.10.2012

Code: mrl_slg425i_en

Operating instructions and Declaration of conformity (de) 525 kB, 25.10.2012

Code: mrl_slg425i_de

Operating instructions and Declaration of conformity (fr) 447 kB, 07.11.2012

Code: mrl_slg425i_fr

Operating instructions and Declaration of conformity (it) 453 kB, 11.09.2012

Code: mrl_slg425i_it

Operating instructions and Declaration of conformity (jp) 574 kB, 23.08.2012

Code: mrl_slg425i_jp

Operating instructions and Declaration of conformity (pl) 422 kB, 11.09.2013

Code: mrl_slg425i_pl

Operating instructions and Declaration of conformity (da) 449 kB, 23.08.2012

Code: mrl_slg425i_da

BG-test certificate (de, en) 1 MB, 14.10.2016

Code: z_slcp08

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

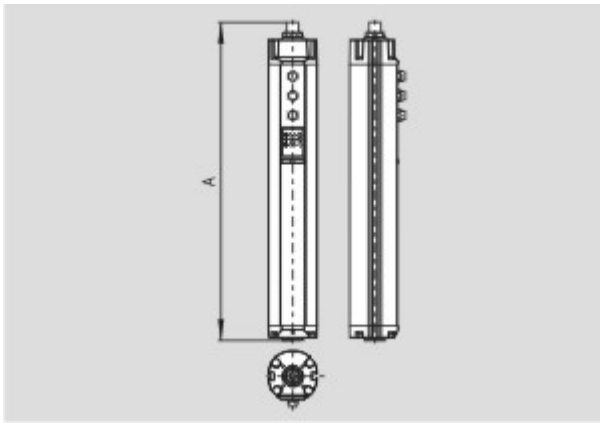
Code: b_optoshort_de

EAC certification (ru) 772 kB, 05.10.2015

Code: q_6395p17_ru

EAC certification (ru) 1 MB, 15.03.2018

Code: q_slbp01



Dimensional drawing (basic component)

System components

Safety control modules



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



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

Connector



KA-08

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



KA-09

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