

## Datasheet - SLG 425I-E/R0500-02-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

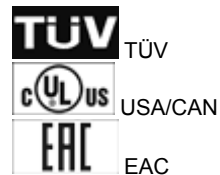
(Minor differences between the printed image and the original product may exist!)

### Ordering details

Product type description	SLG 425I-E/R0500-02-RF
Article number	101207663
EAN Code	4030661378367
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	2600
Beam coding (Y/N)	Yes
Protection field height	500
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	500
Number of beams	2
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

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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	804
- Height of Receiver	868
- 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 425I-E/R(1)-RFBC

(1)

<b>0500-02</b>	Distance between outermost beams 500 mm, 2-beam
<b>0800-03</b>	Distance between outermost beams 800 mm, 3-beam
<b>0900-04</b>	Distance between outermost beams 900 mm, 4-beam

## Documents

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**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

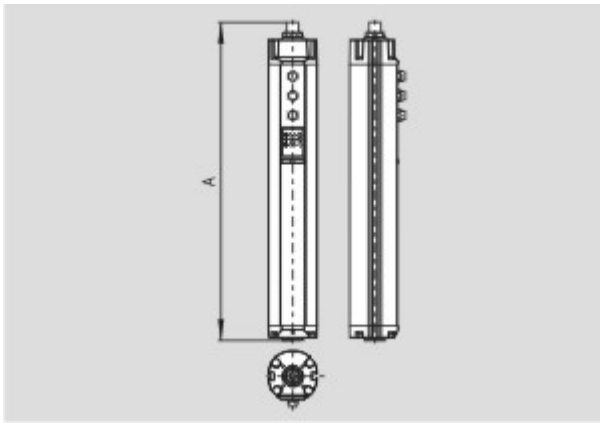
Code: b\_optoshort\_de

**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