

Datasheet - SLG 440-E/R0900-04-01

Safety light curtains, Safety light grids / Safety light grids / SLG 440



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

- Safety type 4 in accordance with IEC 61496-1
- User-friendly parameter setting, no tools required
- Reliable safety concept in case of interferences (EMC, welding sparks)
- Process safety with highest availability
- Integrated set-up tool

Ordering details

Product type description	SLG 440-E/R0900-04-01
Article number	101216823
EAN code	4030661415550

Approval

Approval



Classification

Standards	EN ISO 13849-1, EN 62061
PL	up e
Control category	up 4
PFH value	5.14 x 10 ⁻⁹ /h
SIL	up 3
Mission time	20 Years

Global Properties

Product name	SLG 440 Sicherheits-Lichtgitter
Standards	EN 61496-1; CLC/TS 61496-2
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 mm
Range of the protection field	300 - 12000 mm
Reaction time	10 ms
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	SRB 301MC

Mechanical data

Detection ability for test bodies	900 mm
Number of beams	4 piece
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 m

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-10 °C
- Max. environmental temperature	+50 °C
Storage and transport temperature	
- Min. Storage and transport temperature	-25 °C
- Max. Storage and transport temperature	+70 °C
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of output switching element OSSD	PNP
Power consumption	
- Power consumption Transmitter	1.8 W
- Power consumption Receiver	3.8 W
Voltage type	DC
Switching voltage of the OSSD in high state	24 V ± 10%

Outputs

Max. output current at secured output	250 mA
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Electrical data - Safety outputs

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

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	
- Width of sensor	27.8 mm
- Height of sensor	1010 mm
- Length of sensor	33 mm

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
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Ordering code

SLG 440-E/R(1)-01

(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 (da) 551 kB, 06.09.2012

Code: mrl_slg440_da

Operating instructions and Declaration of conformity (fr) 573 kB, 08.03.2012

Code: mrl_slg440_fr

Operating instructions and Declaration of conformity (it) 545 kB, 23.07.2012

Code: mrl_slg440_it

Operating instructions and Declaration of conformity (jp) 679 kB, 24.07.2012

Code: mrl_slg440_jp

System components

Safety control modules



SRB 301MC

- Fit for signal evaluation of outputs of safety magnetic switches
 - 3 safety contacts, STOP 0
 - 1 Signalling output
 - Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks
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Connector



A-K8M12

- Pre-wired cable
 - 8-pole
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A-K4M12

- Pre-wired cable
 - 4-pole
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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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