

## Datasheet - SLG 440-E/R0800-03-01

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/R0800-03-01 |
| Article number           | 101216822             |
| EAN code                 | 4030661415543         |

### Approval

Approval



### Classification

|                  |                            |
|------------------|----------------------------|
| Standards        | EN ISO 13849-1, EN 62061   |
| PL               | up e                       |
| Control category | up 4                       |
| PFH value        | 5.14 x 10 <sup>-9</sup> /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                         | 800 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

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|                                   |                            |
|-----------------------------------|----------------------------|
| Detection ability for test bodies | 800 mm                     |
| Number of beams                   | 3 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

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

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

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|                                       |        |
|---------------------------------------|--------|
| Max. output current at secured output | 250 mA |
|---------------------------------------|--------|

### Electrical data - Safety outputs

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

### 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 |         |
| - Width of sensor        | 27.8 mm |
| - Height of sensor       | 910 mm  |
| - Length of sensor       | 33 mm   |

### 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 |
|-------------------------------------|--|

### Ordering code

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SLG 440-E/R(1)-01

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|                |   |
|----------------|---|
| <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 (de)** 625 kB, 20.06.2012

Code: mrl\_slg440\_de

**Operating instructions and Declaration of conformity (en)** 550 kB, 20.06.2012

Code: mrl\_slg440\_en

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

Code: mrl\_slg440\_fr

**Operating instructions and Declaration of conformity (es)** 546 kB, 21.08.2012

Code: mrl\_slg440\_es



## System components

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### 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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