

## Datasheet - SLC440COM-ER-0410-30

Safety light curtains, Safety light grids / Safety light curtains / SLC440COM



(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 | SLC440COM-ER-0410-30 |
| Article number           | 103003941            |
| EAN Code                 | 4030661435190        |
| eCl@ss                   | 27-27-27-04          |

### Approval


Approval



### Classification

|                  |                           |
|------------------|---------------------------|
| Standards        | EN ISO 13849-1, EN 62061  |
| PL               | up e                      |
| Control category | up 4                      |
| PFH value        | 8.05 x 10 <sup>-9</sup> / |
| SIL              | up 3                      |
| Mission time     | 20 Years                  |

### Global Properties

|  |                                    |
|--|------------------------------------|
| Permanent light  | SLC440COM Sicherheits-Lichtvorhang |
| Standards  | EN 61496-1; EN 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   | 700                                |
| Beam coding (Y/N)  | No                                 |
| Protection field height  | 410                                |
| Range of the protection field  | 300 - 10.000                       |
| 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   | SRB301                             |

### Mechanical data

|                                   |                            |
|-----------------------------------|----------------------------|
| Detection ability for test bodies | 30                         |
| Number of beams                   | 20                         |
| Design of electrical connection   | Connector                  |
| - Wiring of the transmitter       | connector plug M12, 4-pole |
| - Wiring of the receiver          | connector plug M12, 5-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             | < 5     |
| - Power consumption Receiver                | < 10    |
| Voltage type                                | DC      |
| Switching voltage of the OSSD in high state | 24 ± 10 |
| Integrated contactor control (Y/N)          | No      |

## Outputs

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Max. output current at secured output 250

## 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 No

## 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

- Height of sensor 451

- Length of sensor 33

## 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

## Indication legend

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A: total length (Protection field height + 81 mm)

A: total length (Protection field height + 81 mm)

## Ordering code

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SLC440COM-ER(1)-(2)

(1)

0330 Protection field height 330 mm

0410 Protection field height 410 mm

0490 Protection field height 490 mm

0570 Protection field height 570 mm

0650 Protection field height 650 mm

0730 Protection field height 730 mm

0810 Protection field height 810 mm

0890 Protection field height 890 mm

|      |   |
|------|---|
| 0970 | Protection field height 970 mm  |
| 1050 | Protection field height 1050 mm   |
| 1130 | Protection field height 1130 mm   |
| 1210 | Protection field height 1210 mm   |
| 1290 | Protection field height 1290 mm   |
| 1370 | Protection field height 1370 mm   |
| 1450 | Protection field height 1450 mm   |
| 1530 | Protection field height 1530 mm <i>(Only for Resolution 30 mm, 35 mm)</i> |
| 1610 | Protection field height 1610 mm <i>(Only for Resolution 30 mm, 35 mm)</i> |
| 1690 | Protection field height 1690 mm <i>(Only for Resolution 30 mm, 35 mm)</i> |
| 1770 | Protection field height 1770 mm <i>(Only for Resolution 30 mm, 35 mm)</i> |
| (2)  |   |
| 14   | Resolution 14 mm, Range 0,3 m ... 7 m                                     |
| 30   | Resolution 30 mm, Range 0,3 m ... 10 m                                    |
| 35   | Resolution 35 mm, Range 0,3 m ... 7 m                                     |

## Documents

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**Operating instructions and Declaration of conformity** (es) 415 kB, 25.09.2017

Code: mrl\_slc-slg440com\_es

**Operating instructions and Declaration of conformity** (br) 407 kB, 03.02.2015

Code: ace\_mrl\_slc-slg440com\_br

**Operating instructions and Declaration of conformity** (fr) 452 kB, 16.10.2017

Code: mrl\_slc-slg440com\_fr

**Operating instructions and Declaration of conformity** (de) 400 kB, 13.09.2017

Code: mrl\_slc-slg440com\_de

**Operating instructions and Declaration of conformity** (cn) 649 kB, 23.11.2018

Code: mrl\_slc-slg440com\_cn

**Operating instructions and Declaration of conformity** (jp) 505 kB, 09.10.2017

Code: mrl\_slc-slg440com\_jp

**Operating instructions and Declaration of conformity** (it) 447 kB, 16.10.2017

Code: mrl\_slc-slg440com\_it

**Operating instructions and Declaration of conformity** (pt) 436 kB, 16.10.2017

Code: mrl\_slc-slg440com\_pt

**Operating instructions and Declaration of conformity** (pl) 469 kB, 02.03.2018

Code: mrl\_slc-slg440com\_pl

**Operating instructions and Declaration of conformity** (en) 412 kB, 23.10.2019

Code: mrl\_slc-slg440com\_en

**Operating instructions and Declaration of conformity** (nl) 448 kB, 02.03.2018

Code: mrl\_slc-slg440com\_nl

**BG-test certificate** (de, en) 1 MB, 25.03.2015

Code: z\_slcp04

**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, 20.02.2019

Code: b\_optoshort\_pl

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

Code: b\_optoshort\_de

**Brochure** (pt) 1 MB, 12.04.2018

Code: b\_slc440-familie\_pt

**Brochure** (de) 917 kB, 04.07.2018

Code: b\_slc440-familie\_de

**Brochure** (en) 1 MB, 04.07.2018

Code: b\_slc440-familie\_en

**Brochure** (fr) 1 MB, 12.04.2018

Code: b\_slc440-familie\_fr

**Brochure** (es) 1 MB, 12.04.2018

Code: b\_slc440-familie\_es

**Brochure** (nl) 1 MB, 04.07.2018

Code: b\_slc440-familie\_nl

**Brochure** (it) 1 MB, 12.04.2018

Code: b\_slc440-familie\_it

## Images

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Dimensional drawing (basic component)

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Dimensional drawing (basic component)

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Dimensional drawing (miscellaneous)

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Wiring example

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

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