



## SLC440-ER-0410-14-01

- Safety type 4 in accordance with IEC 61496-1
- Status and diagnostics via App with bluetooth
- active integrated set-up tool
- Blanking: fixed/floating
- Double acknowledgement/reset
- Integrated contactor control
- Beam coding
- Process safety with highest availability
- User-friendly parameter setting, no tools required
- optional degree of protection IP69 with protective enclosure (accessories)

## Data

### Ordering data

|                               |                      |
|-------------------------------|----------------------|
| Product type description      | SLC440-ER-0410-14-01 |
| Article number (order number) | 101216618            |
| EAN (European Article Number) | 4030661409047        |
| eCl@ss number, version 12.0   | 27-27-27-04          |
| eCl@ss number, version 11.0   | 27-27-27-04          |
| eCl@ss number, version 9.0    | 27-27-27-04          |
| ETIM number, version 7.0      | EC002549             |
| ETIM number, version 6.0      | EC002549             |

### Approvals - Standards

Certificates

TÜV  
cULus  
ECOLAB

## General data

|                        |                                  |
|------------------------|----------------------------------|
| Standards              | EN IEC 61496-2<br>EN IEC 61496-1 |
| Housing material       | Aluminium                        |
| Reaction time, maximum | 10 ms                            |
| Gross weight           | 930 g                            |

## General data - Features

|                                     |     |
|-------------------------------------|-----|
| Restart interlock (manual reset)    | Yes |
| Contactors control integrated       | Yes |
| Beam coding available               | Yes |
| Blanking function                   | Yes |
| 7-segment display                   | Yes |
| Integral system diagnostics, status | Yes |
| Integral system diagnostics         | Yes |
| Bluetooth                           | Yes |
| Number of fail-safe digital outputs | 2   |
| Number of beams                     | 40  |

## Safety classification

|                                                            |                                |
|------------------------------------------------------------|--------------------------------|
| Standards                                                  | EN ISO 13849-1<br>EN IEC 62061 |
| Performance Level, up to                                   | e                              |
| Category                                                   | 4                              |
| PFH value                                                  | $5.14 \times 10^{-9}$ /h       |
| Safety Integrity Level (SIL), suitable for applications in | 3                              |
| Mission time                                               | 20 Year(s)                     |
| Safety type in accordance with IEC 61496-1                 | 4                              |

## Mechanical data

|                                                    |        |
|----------------------------------------------------|--------|
| Detection ability for test bodies at $v = 1.6$ m/s | 14 mm  |
| Height of the protection field                     | 410 mm |
| Range, protection field, minimum                   | 0.3 m  |
| Range, protection field, maximum                   | 7 m    |
| Wave length of the laserdiode                      | 880 nm |

### **Mechanical data - Connection technique**

|                                          |                            |
|------------------------------------------|----------------------------|
| Termination                              | Connector                  |
| Terminal connector, Recipient            | Connector plug M12, 8-pole |
| Terminal, Connector, Transmitter         | Connector plug M12, 4-pole |
| Length of the connectable cable, maximum | 100 m                      |

### **Mechanical data - Dimensions**

|                       |         |
|-----------------------|---------|
| Height of transmitter | 491 mm  |
| Height of Receiver    | 501 mm  |
| Length of sensor      | 33 mm   |
| Width of sensor       | 27.8 mm |

### **Ambient conditions**

|                                   |                |
|-----------------------------------|----------------|
| Degree of protection              | IP67           |
| Ambient temperature               | -25 ... +50 °C |
| Storage and transport temperature | -25 ... +70 °C |
| Protection class                  | III            |

### **Electrical data**

|                                                          |      |
|----------------------------------------------------------|------|
| Switching voltage OSSD, HIGH signal                      | 24 V |
| Electrical power consumption of the receiver, maximum    | 10 W |
| Electrical power consumption of the transmitter, maximum | 5 W  |

### Electrical data - Safety digital outputs

|                                             |        |
|---------------------------------------------|--------|
| Output current, (fail-safe output), maximum | 0.25 A |
| Design of control elements                  | p-type |

### Scope of delivery

|                   |                            |
|-------------------|----------------------------|
| Scope of delivery | Kit with 2 mounting angles |
|-------------------|----------------------------|

### Accessory

|                               |           |
|-------------------------------|-----------|
| Recommended safety switchgear | SRB-E 301 |
|-------------------------------|-----------|

### Note

|                |                                                                                                |
|----------------|------------------------------------------------------------------------------------------------|
| Note (General) | $I_m$ In case of failure (interruption of the 0 V supply) the maximum leakage current is 1 mA. |
|----------------|------------------------------------------------------------------------------------------------|

### Ordering code

Product type description:  
SLC440-ER(1)-(2)-01

(1)

|             |                                |
|-------------|--------------------------------|
| <b>0170</b> | Protection field height 170 mm |
| <b>0250</b> | Protection field height 250 mm |
| <b>0330</b> | Protection field height 330 mm |
| <b>0410</b> | Protection field height 410 mm |
| <b>0490</b> | Protection field height 490 mm |
| <b>0570</b> | Protection field height 570 mm |
| <b>0650</b> | Protection field height 650 mm |
| <b>0730</b> | Protection field height 730 mm |
| <b>0810</b> | Protection field height 810 mm |
| <b>0890</b> | Protection field height 890 mm |
| <b>0970</b> | 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 (only for resolution 30 mm, 50 mm) |
| 1370 | Protection field height 1370 mm (only for resolution 30 mm, 50 mm) |
| 1450 | Protection field height 1450 mm (only for resolution 30 mm, 50 mm) |
| 1530 | Protection field height 1530 mm (only for resolution 30 mm, 50 mm) |
| 1610 | Protection field height 1610 mm (only for resolution 30 mm, 50 mm) |
| 1690 | Protection field height 1690 mm (only for resolution 30 mm, 50 mm) |
| 1770 | Protection field height 1770 mm (only for resolution 30 mm, 50 mm) |

(2)

|    |                                       |
|----|---------------------------------------|
| 14 | Resolution 14 mm (Range 0.3 ...) 7 m  |
| 30 | Resolution 30 mm (Range 0.3 ...) 10 m |

Pictures

Product picture (catalogue individual photo)



ID: kslc4f37  
| 34.2 kB | .png | 74.083 x 158.397 mm - 210 x 449 px - 72 dpi  
| 336.4 kB | .jpg | 292.1 x 625.122 mm - 828 x 1772 px - 72 dpi  
| 23.1 kB | .jpg | 57.856 x 123.472 mm - 164 x 350 px - 72 dpi

Dimensional drawing basic component

