



SLC440-ER-0890-14-H1

- 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-0890-14-H1 |
| Article number (order number) | 103039586 |
| EAN (European Article Number) | 4030661551814 |
| 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 EN IEC 61496-1 |
| Housing material | Aluminium |
| Reaction time, maximum | 20 ms |
| Gross weight | 1,600 g |

General data - Features

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|-------------------------------------|-----|
| 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 | 88 |

Safety classification

| | |
|--|--------------------------------|
| Standards | EN ISO 13849-1 EN IEC 62061 |
| Performance Level, up to | e |
| Category | 4 |
| PFH value | 5.14×10^{-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 | 890 mm |
| Range, protection field, minimum | 3 m |
| Range, protection field, maximum | 10 m |
| Wave length of the laserdiode | 850 nm |

Mechanical data - Connection technique

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|--|----------------------------|
| 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 | 971 mm |
| Height of Receiver | 981 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

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

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

Scope of delivery

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

Accessory

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

Note

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|----------------|--|
| 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)

| | |
|-------------|--------------------------------|
| 0170 | Protection field height 170 mm |
| 0250 | Protection field height 250 mm |
| 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 (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



ID: 5slc4g17

| 49.3 kB | .cdr |

| 5.5 kB | .png | 74.083 x 161.925 mm - 210 x 459 px - 72 dpi

| 214.0 kB | .jpg | 352.778 x 770.819 mm - 1000 x 2185 px - 72 dpi

Dimensional drawing basic component



ID: 1slg4g15

| 43.2 kB | .cdr |

| 2.4 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 55.5 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

Wiring example



ID: kslc4l34

| 28.5 kB | .cdr |

| 154.7 kB | .jpg | 352.425 x 464.608 mm - 999 x 1317 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 20/08/2024, 7:04 am