



SLC440-ER-0970-30-01

- 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-0970-30-01 |
| Article number (order number) | 101216744 |
| EAN (European Article Number) | 4030661410197 |
| 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

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|------------------------|----------------------------------|
| Standards | EN IEC 61496-2 EN IEC 61496-1 |
| Housing material | Aluminium |
| Reaction time, maximum | 10 ms |
| Gross weight | 1,730 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 | 48 |

Safety classification

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

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|--|--------|
| Detection ability for test bodies at $v = 1.6$ m/s | 30 mm |
| Height of the protection field | 970 mm |
| Range, protection field, minimum | 0.3 m |
| Range, protection field, maximum | 10 m |
| Wave length of the laserdiode | 880 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

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|-----------------------|----------|
| Height of transmitter | 1,051 mm |
| Height of Receiver | 1,061 mm |
| Length of sensor | 33 mm |
| Width of sensor | 27.8 mm |

Ambient conditions

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|-----------------------------------|----------------|
| 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. |
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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)

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|-----------|---------------------------------------|
| 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.

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