



## SLC440-ER-1850-14-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-1850-14-H1
Article number (order number)	103039598
EAN (European Article Number)	4030661552064
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	28 ms

## General data - Features

Restart interlock (manual reset)	Yes
Contact 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	184

## Safety classification

Standards	EN ISO 13849-1 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	1,850 mm
Range, protection field, minimum	3 m
Range, protection field, maximum	10 m
Wave length of the laserdiode	850 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	1,931 mm
Height of Receiver	1,941 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
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## Accessory

Recommended safety switchgear	SRB-E 301
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## Note

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)

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<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

<b>1050</b>	Protection field height 1050 mm
<b>1130</b>	Protection field height 1130 mm
<b>1210</b>	Protection field height 1210 mm
<b>1290</b>	Protection field height 1290 mm (only for resolution 30 mm, 50 mm)
<b>1370</b>	Protection field height 1370 mm (only for resolution 30 mm, 50 mm)
<b>1450</b>	Protection field height 1450 mm (only for resolution 30 mm, 50 mm)
<b>1530</b>	Protection field height 1530 mm (only for resolution 30 mm, 50 mm)
<b>1610</b>	Protection field height 1610 mm (only for resolution 30 mm, 50 mm)
<b>1690</b>	Protection field height 1690 mm (only for resolution 30 mm, 50 mm)
<b>1770</b>	Protection field height 1770 mm (only for resolution 30 mm, 50 mm)

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<b>14</b>	Resolution 14 mm (Range 0.3 ...) 7 m
<b>30</b>	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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