



SLC440AS-ER-0170-30

- Resolution 30 mm
- Range 0,3 ... 10
- Safety type 4 in accordance with IEC 61496-1
- Integrated AS-Interface
- Protection field height 170 mm - 1770 mm
- Configurable blanking functions
- Integrated status indicator

Data

Ordering data

| | |
|-------------------------------|---------------------|
| Product type description | SLC440AS-ER-0170-30 |
| Article number (order number) | 103007435 |
| EAN (European Article Number) | 4030661447858 |
| 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 ASi-SaW |
|--------------|-------------------------|

General data

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|------------------------|--|
| Standards | CLC/TS 61496-2 EN 50295 EN IEC 62061 EN ISO 13849-1 EN IEC 61496-1 |
| Working principle | optoelectronic |
| Housing material | Aluminium |
| Reaction time, maximum | 13 ms |
| Gross weight | 530 g |

General data - Features

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|-------------------------------------|-----|
| Safety functions | Yes |
| Blanking function | Yes |
| 7-segment display | Yes |
| Integral system diagnostics, status | Yes |
| Number of beams | 8 |

Safety classification

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|--|--------------------------|
| Standards | EN IEC 62061 |
| Performance Level, up to | e |
| Category | 4 |
| PFH value | $5.17 \times 10^{-9} /h$ |
| 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

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|--|--------|
| Detection ability for test bodies at $v = 1.6 \text{ m/s}$ | 30 mm |
| Height of the protection field | 170 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, 5-pole |
| Terminal, Connector, Transmitter | Connector plug M12, 4-pole |

Mechanical data - Dimensions

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|------------------------------------|---------|
| Height of Receiver | 303 mm |
| Length of sensor | 33 mm |
| Width of sensor | 27.8 mm |
| Height of the Sensor (Transmitter) | 283 mm |

Ambient conditions

| | |
|-----------------------------------|---------------------------------|
| Degree of protection | IP67 |
| Ambient temperature | -10 ... +50 °C |
| Storage and transport temperature | -25 ... +70 °C |
| Resistance to vibrations | 10 ... 55 Hz, amplitude 0.35 mm |
| Restistance to shock | 10 g / 16 ms |
| Protection class | III |

Ambient conditions - Insulation values

| | |
|---|--------|
| Rated insulation voltage U_i | 32 VDC |
| Rated impulse withstand voltage U_{imp} | 0.8 kV |
| Overvoltage category | III |
| Degree of pollution | 2 |

Electrical data - AS Interface

Rated operating voltage 18 ... 31.6 VDC (Protection against polarity reversal)

AS-i Current consumption, maximum 50 mA

Electrical data - AS-Interface specification

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|----------------------------------|---|
| AS-i Specification | Safety-Slave |
| AS-i Version | V 3.0 |
| AS-i Profile | S-0.B.F.E |
| AS-i Input, Channel 1 | Data bits DI 0 / DI 1 = dynamic code transmission |
| AS-i Input, Channel 2 | Data bits DI 2 / DI 3 = dynamic code transmission |
| AS-i Outputs, DO 0 ... DO 3 | No Function |
| AS-i Parameter bits, P0 | No function |
| AS-i Parameter bits, P1 | Low beam quality |
| AS-i Parameter bits, P2 | No function |
| AS-i Parameter bits, P3 | Internal device error (FID) |
| Note (AS-i Parameter bits) | Set the parameter outputs to "1111" (0xF) FID: periphery error |
| AS-i Input module address | 0 |
| Note (AS-i Input module address) | Preset to address 0, can be changed through AS-interface bus master or hand-held programming device |

Electrical data - Auxiliary voltage

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|--------------------------------|---|
| Operating voltage | 24 VDC -15 % / +10 % (stabilised PELV power supply) |
| Power consumption, Receiver | 150 mA |
| Power consumption, Transmitter | 75 mA |
| Rated operating voltage | 24 VDC |

Status indication

Note (LED switching conditions display) Green/red LED (AS-i duo LED): Supply voltage / communication error / slave address = 0 / periphery error detected

Note

Pictures

Product picture (catalogue individual photo)



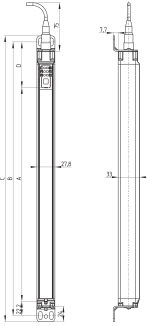
ID: kslc4f94

| 203.3 kB | .jpg | 352.778 x 322.439 mm - 1000 x 914 px - 72 dpi

| 13.9 kB | .png | 74.083 x 67.733 mm - 210 x 192 px - 72 dpi

| 40.1 kB | .jpg | 123.472 x 112.889 mm - 350 x 320 px - 72 dpi

Dimensional drawing basic component



ID: 5slc4g26

| 5.1 kB | .png | 74.083 x 158.75 mm - 210 x 450 px - 72 dpi

| 218.6 kB | .jpg | 352.778 x 757.061 mm - 1000 x 2146 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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