



Figure can vary

Part no.: 50126327
SLE46C-40.K4/4P
Single beam safety device receiver



Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Suitable transmitters
- Notes
- Accessories

Part no.: 50126327 – SLE46C-40.K4/4P – Single beam safety device receiver

Technical data

| Basic data | |
|-------------------------------------|---|
| Series | 46C |
| Functions | |
| Functions | Alignment indicator Diagnostic output |
| Characteristic parameters | |
| Type | 4 , IEC/EN 61496, in combination with MSI-TRMB safety relay |
| SIL | 3 , IEC 61508, in combination with MSI-TRMB safety relay |
| SILCL | 3 , IEC/EN 62061, in combination with MSI-TRMB safety relay |
| Performance Level (PL) | e , EN ISO 13849-1:2008 , In combination with MSI-TRMB safety relay |
| MTTF _d | 900 years , EN ISO 13849-1 |
| Mission time T _M | 20 years , EN ISO 13849-1 |
| Category | 4 , EN ISO 13849:2008 , In combination with MSI-TRMB safety relay |
| Electrical data | |
| Protective circuit | Polarity reversal protection Short circuit protected |
| Performance data | |
| Supply voltage U _B | 24 V , DC , -20 ... 20 % , Incl. residual ripple |
| Residual ripple | 10 % , From U _B |
| Open-circuit current | 0 ... 15 mA |
| Outputs | |
| Number of digital switching outputs | 2 Piece(s) |
| Switching outputs | |
| Switching voltage high, min. | 22 V |
| Switching voltage low, max. | 2 V |
| Switching voltage, typ. | 23 V |
| Voltage type | DC |
| Switching current, max. | 100 mA |
| Switching voltage | High: ≥(U _B -2V) Low: ≤2V |
| Switching output 1 | |
| Assignment | Connection 1, conductor 2 |
| Switching element | Transistor , PNP |
| Switching principle | Dark switching |
| Function | Diagnostic output |
| Switching output 2 | |
| Assignment | Connection 1, conductor 4 |
| Switching element | Transistor , PNP |
| Switching principle | Light switching |
| Function | Switching output |
| Timing | |
| Switching frequency | 250 Hz |
| Response time | 2.5 ms |
| Readiness delay | 300 ms |

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Connection

Number of connections 1 Piece(s)

Connection 1

| | |
|----------------------|------------------------------|
| Type of connection | Cable |
| Function | Signal OUT Voltage supply |
| Cable length | 2,000 mm |
| Sheathing material | PUR |
| Number of conductors | 4 -wire |
| Wire cross section | 0.21 mm ² |

Mechanical data

| | |
|----------------------------|---------------------------|
| Design | Cubic |
| Dimension (W x H x L) | 20.5 mm x 76.3 mm x 44 mm |
| Housing material | Plastic , PC-PBT |
| Lens cover material | Plastic / PMMA |
| Net weight | 100 g |
| Housing color | Yellow |
| Type of fastening | Through-hole mounting |
| Compatibility of materials | ECOLAB |

Operation and display

| | |
|-----------------|------------|
| Type of display | LED |
| Number of LEDs | 2 Piece(s) |

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -30 ... 60 °C |
| Ambient temperature, storage | -30 ... 70 °C |

Certifications

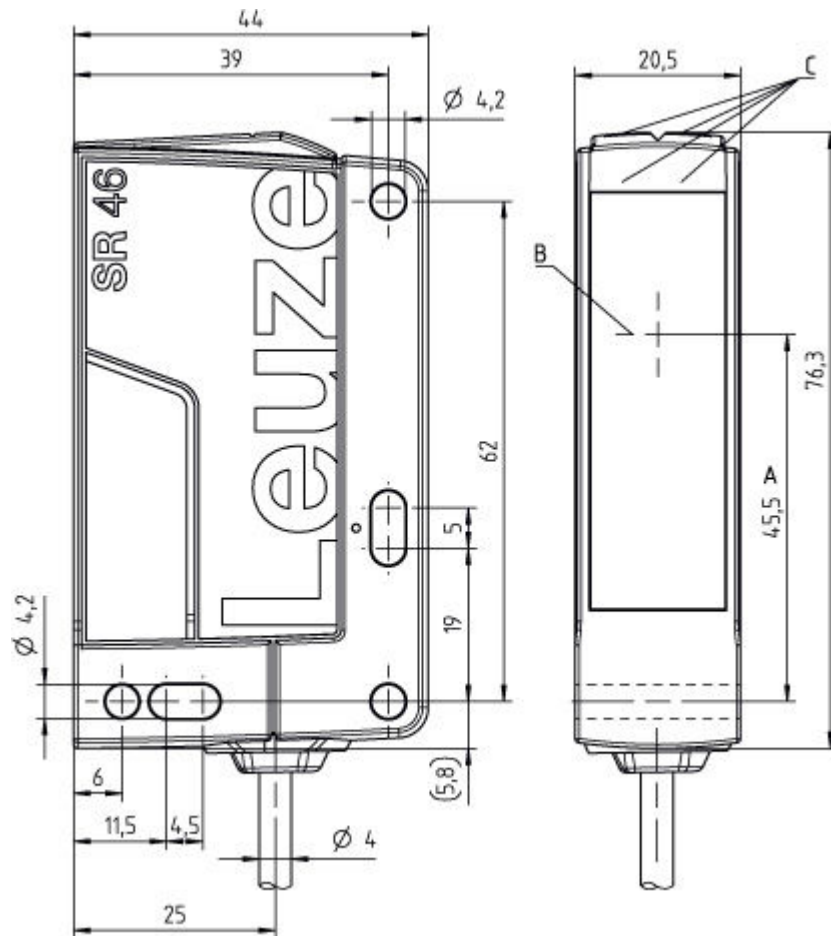
| | |
|----------------------|-----------------------------|
| Degree of protection | IP 67 IP 69K |
| Protection class | III , Rating voltage 50 V |
| Certifications | c TÜV NRTL US c UL US |
| Standards applied | IEC 60947-5-2, IEC/EN 61496 |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85365019 |
| eCl@ss 8.0 | 27272701 |
| eCl@ss 9.0 | 27272701 |
| ETIM 5.0 | EC001831 |
| ETIM 6.0 | EC001831 |

Dimensioned drawings

All dimensions in millimeters



- A Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

Electrical connection

| Connection 1 | |
|----------------------|------------------------------|
| Type of connection | Cable |
| Function | Signal OUT Voltage supply |
| Cable length | 2,000 mm |
| Sheathing material | PUR |
| Cable color | Black |
| Number of conductors | 4 -wire |
| Wire cross section | 0.21 mm ² |

| Conductor color | Conductor assignment |
|-----------------|----------------------|
| Brown | +24V |
| White | Diagnosis |
| Blue | GND |
| Black | OUT |


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Operation and display

LEDs

| LED | Display | Meaning |
|-----|--------------------------|-----------------|
| 1 | Green, continuous light | Ready |
| 2 | Yellow, continuous light | Light path free |

Suitable transmitters

| | Part no. | Designation | Article | Description |
|---|----------|---------------|---------------------------------------|---|
|  | 50126545 | SLS46C-40.K48 | Single beam safety device transmitter | Special design: Activation input Operating range: 0.25 ... 40 m Operating range limit: 0.25 ... 48 m Light source: LED, Red Response time: 2.5 ms Connection: Cable, 2,000 mm, PUR |

Notes

Observe intended use!

- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

ATTENTION!

- The SLS46CK4 safety sensors are a type 4 AOPD only in combination with the MSI-TRM safety relays.
- For mounting, electrical connection and operation, the operating instructions of the MSI-TRM safety relays are to be observed.

For UL applications:

- Certification: UL 508, C22.2 No.14-13
- Only for use in "class 2" circuits
- These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/CYJV7 or PVVA/PVVA7)

- Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C




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Accessories


Connection technology - Connection unit

| | Part no. | Designation | Article | Description |
|---|----------|-------------|--------------|-------------|
|  | 547931 | MSI-TRMB-01 | Safety relay | |
|  | 547932 | MSI-TRMB-02 | Safety relay | |

Connection technology - Connection cables


| | Part no. | Designation | Article | Description |
|---|----------|--------------------|------------------|---|
|  | 50130653 | KD U-M12-4A-V1-100 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC |
|  | 50130690 | KD U-M12-4W-V1-050 | Connection cable | Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC |
|  | 50130691 | KD U-M12-4W-V1-100 | Connection cable | Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC |

Mounting technology - Mounting brackets

| | Part no. | Designation | Article | Description |
|---|----------|-------------|-----------------|--|
|  | 50105315 | BT 46 | Mounting device | Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal |

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Muting - Mounting systems

| | Part no. | Designation | Article | Description |
|---|----------|--------------|-----------------|--|
|  | 50117252 | BTU 300M-D12 | Mounting system | <p>Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers</p> <p>Design of mounting device: Mounting system</p> <p>Fastening, at system: For 12 mm rod, Sheet-metal mounting</p> <p>Mounting bracket, at device: Screw type</p> <p>Type of mounting device: Clampable, Adjustable, Turning, 360°</p> <p>Material: Metal</p> |