



the sensor people





Part no.: 50126546 SLS46C-40.K48-M12 Single beam safety device transmitter











Figure can vary

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- Technical data
- · Dimensioned drawings
- · Electrical connection
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Technical data

| Basic data | | |
|-------------------------------|--|--|
| Series | 46C | |
| | | |
| Special design | | |
| Special design | Activation input | |
| opecial design | Activation input | |
| Functions | | |
| Functions | Activation input | |
| Turiotorio | / total and in the control of the co | |
| Characteristic parameters | | |
| Туре | 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 re- | |
| | lay | |
| MTTFd | 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 | |
| | | |
| Optical data | | |
| Operating range | 0.25 40 m | |
| Operating range limit | 0.25 48 m | |
| Light source | LED , Red | |
| LED light wavelength | 630 nm | |
| Transmitted-signal shape | Pulsed | |
| LED group | 1 | |
| Opening angle, max. | -2.5 2.5 ° | |
| | | |
| Electrical data | | |
| Performance data | | |
| Supply voltage U _B | 24 V , DC , -20 20 $\%$, Incl. residual ripple | |
| Residual ripple | 10 % , From U_{B} | |
| Open-circuit current | 0 40 mA | |
| Inputs | | |
| Number of activation inputs | 1 Piece(s) | |
| Activation inputs | | |
| Voltage type | DC | |
| Switching voltage | high: ≥8V low: ≤1.5V | |
| Switching voltage high, min. | 8 V | |
| Switching voltage low, max. | 1.5 V | |
| Activation/disable delay | 1 ms | |
| Input resistance | 10,000 Ω , -30 30 % | |
| Activation input 1 | | |
| Assignment | Connection 1, pin 4 | |
| Active switching state | High | |



| Switching frequency | 250 Hz |
|---------------------|--------|
| Response time | 2.5 ms |
| Readiness delay | 300 ms |

| onnection | | |
|----------------------|-----------------------------|--|
| umber of connections | 1 Piece(s) | |
| Connection 1 | | |
| Type of connection | Connector | |
| Function | Signal IN Voltage supply | |
| Thread size | M12 | |
| Material | Plastic | |
| No. of pins | 4 -pin | |

| 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 | 50 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 | |

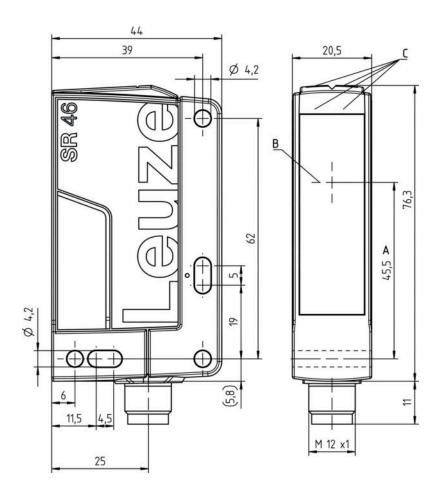
| Certifications | | |
|----------------------|-----------------------------|--|
| Degree of protection | IP 67 IP 69K | |
| Protection class | III,Rating voltage 50 V | |
| Certifications | c TÜV NRTL US c UL US | |
| Standards applied | IEC 60947-5-2, IEC/EN 61496 | |

| 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

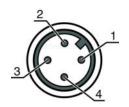


- A Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

Electrical connection

| Connection 1 | | |
|--------------------|-----------------------------|--|
| Type of connection | Connector | |
| Function | Signal IN Voltage supply | |
| Thread size | M12 | |
| Туре | Male | |
| Material | Plastic | |
| No. of pins | 4 -pin | |
| Encoding | A-coded | |

| Pin | Pin assignment | Conductor color |
|-----|----------------|-----------------|
| 1 | +24V | Brown |
| 2 | n.c. | White |
| 3 | GND | Blue |
| 4 | Active | Black |





Operation and display

LEDs

| LED | Display | Meaning |
|-----|--------------------------|-----------------------|
| 1 | Green, continuous light | Ready |
| 2 | Yellow, continuous light | Transmitter activated |

Suitable receivers

| | Part no. | Designation | Article | Description |
|--|----------|-------------------------|--|--|
| The same of the sa | 50126328 | SLE46C-40.K4/ 4P-M12 | Single beam safety device receiver | Response time: 2.5 ms Connection: Connector, M12, Plastic, 4 -pin |

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)
- · Typ. operating range limit: max. attainable range without function reserve
- · Operating range: recommended range with function reserve
- Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C



Accessories

Connection technology - Connection unit

| | Part no. | Designation | Article | Description |
|-------|----------|-------------|--------------|-------------|
| は一日 | 547931 | MSI-TRMB-01 | Safety relay | |
| At HE | 547932 | MSI-TRMB-02 | Safety relay | |

Connection technology - Connection cables

| Part no. | Designation | Article | Description |
|----------|------------------------|------------------|--|
| 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 |

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 |

Muting - Mounting systems

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

Note

A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.