

## Technical data sheet

### Single light beam safety device receiver

Part no.: 50126327

SLE46C-40.K4/4P



For illustration purposes only

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## 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 <sub>d</sub>           | 900 years, EN ISO 13849-1                                         |
| Mission time T <sub>M</sub> | 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 <sub>B</sub> | 24 V, DC, -20 ... 20 %, Incl. residual ripple |
| Residual ripple               | 10 %, From U <sub>B</sub>                     |
| 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, type.     | 23 V                                      |
| Voltage type                 | DC                                        |
| Switching current, max.      | 100 mA                                    |
| Switching voltage            | high: $\geq(U_B - 2V)$<br>low: $\leq 2 V$ |

#### 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          |

### Time behavior

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

### Connection

|                       |            |
|-----------------------|------------|
| Number of connections | 1 Piece(s) |
|-----------------------|------------|

#### Connection 1

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

### Mechanical data

|                            |                           |
|----------------------------|---------------------------|
| Design                     | Cubic                     |
| Dimension (W x H x L)      | 20.5 mm x 76.3 mm x 44 mm |
| Housing material           | Plastic                   |
| Plastic housing            | 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 |

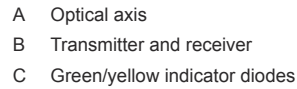
### Certifications

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

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85365019 |
| ECLASS 5.1.4          | 27272701 |
| ECLASS 8.0            | 27272701 |
| ECLASS 9.0            | 27272701 |
| ECLASS 10.0           | 27272701 |
| ECLASS 11.0           | 27272701 |
| ECLASS 12.0           | 27272701 |
| ECLASS 13.0           | 27272701 |
| ECLASS 14.0           | 27272701 |
| ECLASS 15.0           | 27272701 |
| ETIM 5.0              | EC001831 |
| ETIM 6.0              | EC001831 |
| ETIM 7.0              | EC001831 |
| ETIM 8.0              | EC001831 |
| ETIM 9.0              | EC001831 |
| ETIM 10.0             | EC001831 |

All dimensions in millimeters



## Connection 1

### Conductor color

|              |           |
|--------------|-----------|
| <b>Brown</b> | +24 V     |
| <b>White</b> | Diagnosis |
| <b>Blue</b>  | GND       |
| <b>Black</b> | OUT       |

## Operation and display

| 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 light beam safety device transmitter | Special version: Activation input<br>Operating range: 0.25 ... 40 m<br>Operating range limit: 0.25 ... 48 m<br>Light source: LED, Red<br>Response time: 2.5 ms<br>Connection: Cable, 2,000 mm, PUR |

## Notes

|  <b>Observe intended use!</b> |                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | <ul style="list-style-type: none"> <li>The product may only be put into operation by competent persons.</li> <li>Only use the product in accordance with its intended use.</li> </ul> |

| <b>ATTENTION!</b>                                                                  |                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>The SLS46CK4 safety sensors are a type 4 AOPD only in combination with the MSI-TRM safety relays.</li> <li>For mounting, electrical connection and operation, the operating instructions of the MSI-TRM safety relays are to be observed.</li> </ul> |

| <b>For UL applications:</b>                                                        |                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>Certification: UL 508, C22.2 No.14-13</li> <li>Only for use in "class 2" circuits</li> <li>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)</li> </ul> |

## Further information

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

## Accessories

### Connection technology - Connection unit

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

### Mounting technology - Mounting brackets

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

### Muting - Mounting systems

|                                                                                     | Part no. | Designation  | Article         | Description                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|----------|--------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50117252 | BTU 300M-D12 | Mounting system | Design of mounting device: Mounting system<br>Fastening, at system: For 12 mm rod, Sheet-metal mounting<br>Mounting bracket, at device: Screw type, Suited for M4 screws<br>Type of mounting device: Clampable, Adjustable, Turning, 360°<br>Material: Metal |

#### Note



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