## $\Delta$ Leuze electronic



Part no.: 50121911
SLS46CI-70.K28-M12
Single beam safety device transmitter


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## $\Delta$ Leuze electronic

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## Technical data

| Basic data | 46 C |
| :--- | :--- |
| Series |  |
|  | 2, IEC/EN 61496 |
| Characteristic parameters | 400 years, EN ISO 13849-1 |
| Type | 20 years, EN ISO 13849-1 |
| MTTFd |  |
| Mission time TM |  |
|  | $5 \ldots 70 \mathrm{~m}$ |
| Optical data | $5 \ldots 80 \mathrm{~m}$ |
| Operating range | LED, Infrared |
| Operating range limit | 940 nm |
| Light source | Pulsed |
| LED light wavelength | 1 |
| Transmitted-signal shape |  |
| LED protection class |  |


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


| Electrical data |  |
| :--- | :--- |
| Protective circuit | Polarity reversal protection, Short circuit protected |
| Performance data | $24 \mathrm{~V}, \mathrm{DC},-20 \ldots 20 \%$, Incl. residual ripple |
| Supply voltage | $10 \%$, From UB |
| Residual ripple | $0 \ldots 40 \mathrm{~mA}$ |
| Open-circuit current | 1 Piece(s) |
| Inputs | DC |
| Number of activation inputs | high: $\geq 8 \mathrm{~V}$, low: $\leq 1.5 \mathrm{~V}$ |
| Activation inputs | 8 V |
| Voltage type | 1.5 V |
| Switching voltage | 1 ms |
| Switching voltage high, min. | $10.000 \Omega,-30 \ldots 30 \%$ |
| Switching voltage low, max. |  |
| Activation/disable delay | Connection 1, pin 4 |
| Input resistance | High |
| Activation input 1 |  |
| Assignment | Active switching state |

## Connection

Number of connections
1 Piece(s)

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| Connection 1 | Connector |
| :--- | :--- |
| Type of connection | Signal IN, Voltage supply |
| Function | M12 |
| Thread size | Plastic |
| Material | 4 -pin |
| No. of pins |  |
|  | Cubic |
| Mechanical data | $20.5 \mathrm{~mm} \times 76.3 \mathrm{~mm} \times 44 \mathrm{~mm}$ |
| Design | Plastic, PC-PBT |
| Width | Plastic (PMMA) |
| Housing material | 50 g |
| Lens cover material | Red |
| Net weight | Through-hole mounting |
| Housing color |  |
| Type of fastening |  |


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


| Environmental data |  |
| :--- | :--- |
| Ambient temperature, operation | $-30 \ldots 60^{\circ} \mathrm{C}$ |
| Ambient temperature, storage | $-30 \ldots 70^{\circ} \mathrm{C}$ |
| Environmental test | ECOLAB |


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


| Functions |  |
| :--- | :--- |
| Functions | Activation input |
|  |  |
| Classification | 27272701 |
| eCl@ss 8.0 | 27272701 |
| eCl@ss 9.0 | EC001831 |
| ETIM 5.0 |  |

## Dimensioned drawings

[^0]

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 |
| Type | Male |
| Material | Plastic |
| No. of pins | 4-pin |
| Encoding | A-coded |


| Pin | Pin assignment | Conductor color |
| :--- | :--- | :--- |
| 1 | +24 V | 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 |

## Accessories

## Connection technology - Connection cables

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

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

## Mounting technology - Mounting brackets

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

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Mounting technology - Rod mounts
$\left.\begin{array}{l|l|l|l|} & \text { Designation } & \text { Article } & \begin{array}{l}\text { Description }\end{array} \\ \hline & 50117253 & \text { BTU 300M-D10 } & \text { Mounting system }\end{array} \begin{array}{l}\text { Contains: } 2 x \text { M4 } \times 25 \text { screw, } 2 \times \text { M4 } \times 20 \text { screw, } 4 \times \text { position } \\ \text { washers } \\ \text { Design of mounting device: Mounting system } \\ \text { Mounting bracket, at system: For } 10 \text { mm rod, Sheet-metal } \\ \text { mounting } \\ \text { Mounting bracket, at device: Screw type } \\ \text { Type of mounting device: Clampable, Adjustable, Turning, } 360^{\circ} \\ \text { Material: Metal }\end{array}\right\}$

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## Alignment aids

|  | Part no. | Designation | Article | Description |
| :--- | :--- | :--- | :--- | :--- |
|  | 50109545 | SAT 5 | Alignment aid | Housing material: Metal |
|  |  |  |  |  |

## 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.


## 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 $30 \mathrm{~V}, 0.5 \mathrm{~A}$ 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
- Average life expectancy $100,000 \mathrm{~h}$ at an ambient temperature of $25^{\circ} \mathrm{C}$


[^0]:    All dimensions in millimeters

