

## Technical data sheet

### Single beam safety device transmitter

Part no.: 50126552

SLS46CI-70.K48-M12



Figure can vary

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## Technical data

### Basic data

Series	46C
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### Special design

Special design	Activation input
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### Functions

Functions	Activation input
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### 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

### Optical data

Operating range	5 ... 70 m
Operating range limit	5 ... 80 m
Light source	LED, Infrared
LED light wavelength	940 nm
Transmitted-signal shape	Pulsed
LED group	1
Opening angle, max.	-2.5 ... 2.5 °

### Electrical data

Protective circuit	Polarity reversal protection Short circuit protected
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#### 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 ... 40 mA

#### Inputs

Number of activation inputs	1 Piece(s)
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#### 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

### Timing

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

### Connection

Number of connections	1 Piece(s)
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#### Connection 1

Function	Signal IN Voltage supply
Type of connection	Connector
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

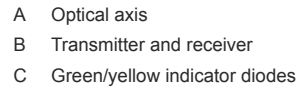
### Certifications

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

### Classification

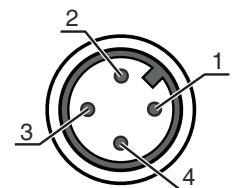
Customs tariff number	85365019
eCl@ss 8.0	27272701
eCl@ss 9.0	27272701
ETIM 5.0	EC001831
ETIM 6.0	EC001831

All dimensions in millimeters



## Connection 1


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





## Operation and display


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


## Suitable receivers

	Part no.	Designation	Article	Description
	50126334	SLE46CI-70.K4/4P-M12	Single beam safety device receiver	Response time: 2.5 ms Connection: Connector, M12, Plastic, 4 -pin

## 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


- Typ. operating range limit: max. attainable range without function reserve
- Operating range: recommended range with function reserve
- 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	


### 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	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

Accessories

Note	
	<p>A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.</p>