

## Technical data sheet

### Single light beam safety device transmitter

Part no.: 50126548

SLS46C-70.K48-M12



For illustration purposes only

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## Technical data

### Basic data

Series	46C
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### Special version

Special version	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, Red
Wavelength	630 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: ≤ 1.5 V
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

### Time behavior

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
Plastic housing	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

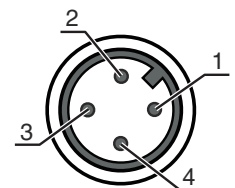
Degree of protection	IP 67 IP 69K
Protection class	III, Rating voltage 50V
Approvals	c UL US
Standards applied	IEC 60947-5-2, IEC/EN 61496

### 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


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




## Operation and display


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


## Suitable receivers

	Part no.	Designation	Article	Description
	50126330	SLE46C-70.K4/4P-M12	Single light beam safety device receiver	Response time: 2.5 ms Connection: Connector, M12, Plastic, 4 -pin

## Notes

! Observe intended use!	
	<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>

ATTENTION!	
	<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>

For UL applications:	
	<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	Application: Chemical resistant Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: No 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

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>