

the sensor people





Figure can vary

Part no.: 50126551 SLS46CI-70.K48 Single beam safety device transmitter













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Technical data

Basic data		
Series	46C	
Characteristic parameters		
Туре	4, IEC/EN 61496	
MTTF _d	900 years, EN ISO 13849-1	
Mission time T _M	20 years, EN ISO 13849-1	
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 protection class	1	
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		
Supply voltage	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	low: ≤1.5V, high: ≥8V	
Switching voltage high, min.	8 V	
	1.5 V	
Switching voltage low, max.	1 ms	
Switching voltage low, max. Activation/disable delay	1 ms	
	1 ms 10.000 Ω, -30 30 %	
Activation/disable delay		
Activation/disable delay Input resistance		
Activation/disable delay Input resistance Activation input 1	10.000 Ω, -30 30 %	
Activation/disable delay Input resistance Activation input 1 Assignment	10.000 Ω, -30 30 % Connection 1, conductor 4	
Activation/disable delay Input resistance Activation input 1 Assignment	10.000 Ω, -30 30 % Connection 1, conductor 4	



Connection 1		
Type of connection	Cable	
Function	Signal IN, Voltage supply	
Cable length	2.000 mm	
Sheathing material	PUR	
Number of conductors	4 -wire	
Core cross section	0.21 mm²	

Cubic	
20.5 mm x 76.3 mm x 44 mm	
Plastic, PC-PBT	
Plastic (PMMA)	
100 g	
Yellow	
Through-hole mounting	
	20.5 mm x 76.3 mm x 44 mm Plastic, PC-PBT Plastic (PMMA) 100 g Yellow

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	
Environmental test	ECOLAB	

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

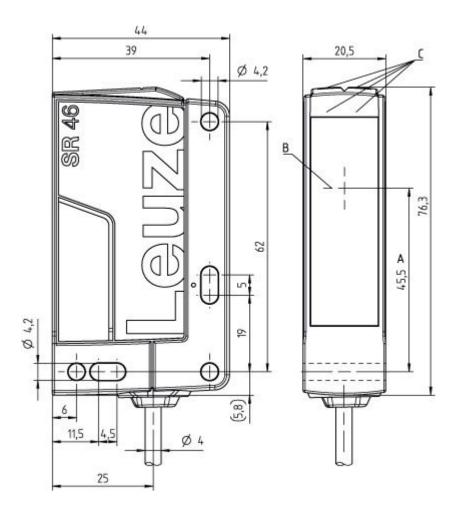
Functions		
Functions	Activation input	

Classification		
eCl@ss 8.0	27272701	
eCl@ss 9.0	27272701	
ETIM 5.0	EC001831	

Dimensioned drawings

All dimensions in millimeters





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

Electrical connection

Connection 1		
Type of connection	Cable	
Function	Signal IN, Voltage supply	
Cable length	2.000 mm	
Sheathing material	PUR	
Cable color	Black	
Number of conductors	4 -wire	
Core cross section	0.21 mm ²	

Conductor color	Conductor assignment
Brown	+24V
White	n.c.
Blue	GND
Black	Active



Operation and display

LEDs

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

Accessories

Mounting technology - Mounting brackets

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

Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50117253	BTU 300M-D10	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
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 Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50117251	BTU 300M-D14	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50120425	BTU 300M.5-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 2x position washers, 2x M4 mounting nut Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Stainless steel
50119332	BTU 900M-D10	Mounting system	Contains: 2x M4 x 10 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal



	Part no.	Designation	Article	Description
	50119331	BTU 900M-D12	Mounting system	Contains: 2x position washers, 2x M4 x 10 screw Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal
f.	50119330	BTU 900M-D14	Mounting system	Contains: 2x position washers, 2x M4 x 10 screw Design of mounting device: Mounting system Mounting bracket, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal

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.

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

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