



the sensor people





Figure can vary

Part no.: 50126549 SLS46CI-40.K48 Single beam safety device transmitter











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Technical data

Basic data		
Series	46C	
Special design		
Special design	Activation input	
Functions		
Functions	Activation input	
Characteristic parameters		
Туре	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	
MTTFd	900 years , EN ISO 13849-1	
Mission time T _M	20 years , EN ISO 13849-1	
Category	4, EN ISO 13849:2008, In combination with MSI-TRMB safety relay	
Optical data		
Operating range	0.25 40 m	
Operating range limit	0.25 48 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	
Performance data		
Supply voltage U _B	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	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, conductor 4	
Active switching state	High	

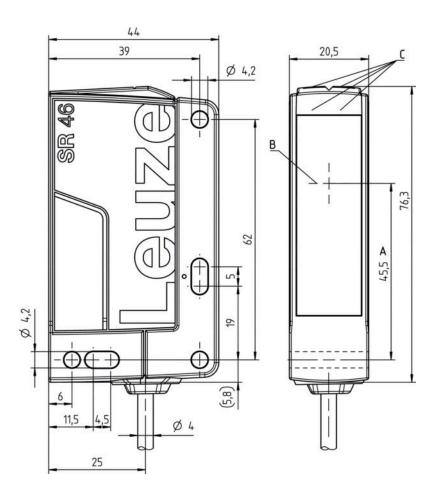


Timing			
Switching frequency	250 Hz		
Response time	2.5 ms		
Readiness delay	300 ms		
	000 mo		
Connection			
Number of connections	1 Piece(s)		
Connection 1	(-)		
Type of connection	Cable		
Function	Signal IN Voltage supply		
Cable length	2,000 mm		
Sheathing material	PUR		
Number of conductors	4 -wire		
Wire cross section	0.21 mm²		
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,Rating voltage 50 V		
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		



Dimensioned drawings

All dimensions in millimeters



- A Optical axis
- B Transmitter and receiver
- C 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
Wire cross section	0.21 mm²

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

Suitable receivers

	Part no.	Designation	Article	Description
ST. THE STREET	50126331	SLE46CI-40.K4/ 4P	Single beam safety device receiver	Response time: 2.5 ms Connection: Cable, 2,000 mm, PUR

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



Accessories

Connection technology - Connection unit

	Part no.	Designation	Article	Description
11 社会社	547931	MSI-TRMB-01	Safety relay	
At HE	547932	MSI-TRMB-02	Safety relay	

Connection technology - Connection cables

Part no.	Designation	Article	Description
50130653	KD U-M12-4A- V1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
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
50130691	KD U-M12-4W- V1-100	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

Pa	art no.	Designation	Article	Description
5010	105315 E	BT 46	· ·	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

Note

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