

# Technical data sheet Single beam safety device transmitter

Part no.: 50126551

SLS46CI-70.K48

# Figure can vary

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# **Technical data**

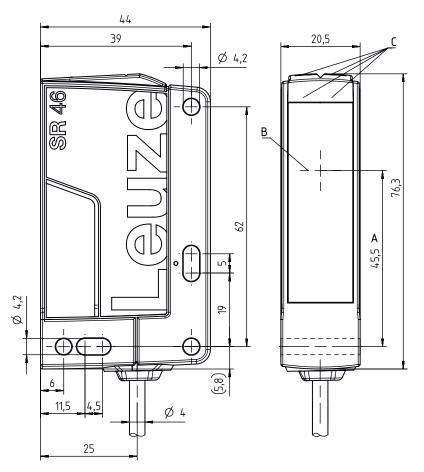


Basic data		Timing	
Series	46C	Switching frequency	250 Hz
		Response time	2.5 ms
Special design		Readiness delay	300 ms
Special design	Activation input	Connection	
Functions		Number of connections	1 Piece(s)
Functions	Activation input	Connection 1	
Characteristic parameters		Function	Signal IN
Tuno	4. IEC/EN 61496, in combination with		Voltage supply
Туре	MSI-TRMB safety relay	Type of connection	Cable
SIL	3, IEC 61508, in combination with MSI-	Cable length	2,000 mm
	TRMB safety relay	Sheathing material	PUR
SILCL	3, IEC/EN 62061, in combination with	Number of conductors	4 -wire
Porformance Level (PL)	MSI-TRMB safety relay	Wire cross section	0.21 mm²
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Mechanical data	
MTTF <sub>d</sub>	900 years, EN ISO 13849-1	meenamear data	
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1	Design	Cubic
Category	4, EN ISO 13849:2008, In combination	Dimension (W x H x L)	20.5 mm x 76.3 mm x 44 mm
	with MSI-TRMB safety relay	Housing material	Plastic, PC-PBT
		Lens cover material	Plastic / PMMA
Optical data		Net weight	100 g
Operating range	5 70 m	Housing color	Yellow
Operating range limit	5 80 m	Type of fastening	Through-hole mounting
Light source	LED, Infrared	Compatibility of materials	ECOLAB
LED light wavelength	940 nm	Operation and display	
Transmitted-signal shape	Pulsed	Operation and display	
LED group	1	Type of display	LED
Opening angle, max.	-2.5 2.5 °	Number of LEDs	2 Piece(s)
Electrical data		Environmental data	
Protective circuit	Polarity reversal protection	Ambient temperature, operation	-30 60 °C
	Short circuit protected	Ambient temperature, storage	-30 70 °C
	·		
Performance data		Certifications	
Supply voltage U <sub>B</sub>	24 V, DC, -20 20 %, Incl. residual	Degree of protection	IP 67
	ripple		IP 69K
Residual ripple	10 %, From U <sub>B</sub>	Protection class	III
Open-circuit current	0 40 mA	Certifications	c TÜV NRTL US
Innuto			c UL US
Inputs		Standards applied	IEC 60947-5-2, IEC/EN 61496
Number of activation inputs	1 Piece(s)	Otaliaal ao applica	
Number of activation inputs	1 Piece(s)	otanida applica	
Number of activation inputs  Activation inputs	1 Piece(s)	Classification	
·	1 Piece(s)  DC		85365019
Activation inputs	· ·	Classification	85365019 27272701
Activation inputs Voltage type	DC	Classification Customs tariff number eCl@ss 8.0	
Activation inputs Voltage type	DC high: ≥8V	Classification Customs tariff number	27272701
Activation inputs Voltage type Switching voltage	DC high: ≥8V low: ≤1.5V	Classification  Customs tariff number eCl@ss 8.0 eCl@ss 9.0	27272701 27272701
Activation inputs Voltage type Switching voltage Switching voltage high, min.	DC high: ≥8V low: ≤1.5V 8 V	Classification  Customs tariff number eCl@ss 8.0 eCl@ss 9.0 ETIM 5.0	27272701 27272701 EC001831
Activation inputs Voltage type Switching voltage Switching voltage high, min. Switching voltage low, max.	DC high: ≥8V low: ≤1.5V 8 V 1.5 V	Classification  Customs tariff number eCl@ss 8.0 eCl@ss 9.0 ETIM 5.0	27272701 27272701 EC001831
Activation inputs Voltage type Switching voltage  Switching voltage high, min. Switching voltage low, max. Activation/disable delay Input resistance	DC high: ≥8V low: ≤1.5V 8 V 1.5 V 1 ms	Classification  Customs tariff number eCl@ss 8.0 eCl@ss 9.0 ETIM 5.0	27272701 27272701 EC001831
Activation inputs Voltage type Switching voltage Switching voltage high, min. Switching voltage low, max. Activation/disable delay	DC high: ≥8V low: ≤1.5V 8 V 1.5 V 1 ms	Classification  Customs tariff number eCl@ss 8.0 eCl@ss 9.0 ETIM 5.0	27272701 27272701 EC001831

# **Dimensioned drawings**

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All dimensions in millimeters



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

# **Electrical connection**

### **Connection 1**

Function	Signal IN
	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.21 mm <sup>2</sup>

### **Conductor color**

### Conductor assignment

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

# **Operation and display**

LED	Display	Meaning
1	Green continuous light	Ready

# Operation and display



LED	Display	Meaning
2	Yellow, continuous light	Transmitter activated

### Suitable receivers

Part no.	Designation	Article	Description
50126333	SLE46CI-70.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.
- Nonly 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:



- Sertification: 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)

### **Further information**

- Typ. operating range limit: max. attainable range without function reserve
- Operating range: recommended range with function reserve
- Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C

### **Accessories**



# Connection technology - Connection unit

	Part no.	Designation	Article	Description
The state of the s	547931	MSI-TRMB-01	Safety relay	
***	547932	MSI-TRMB-02	Safety relay	

# Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
£13	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

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	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

### Note



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