

Technical data sheet Single beam safety device transmitter

Part no.: 50126551

SLS46CI-70.K48

Figure can vary

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Technical data

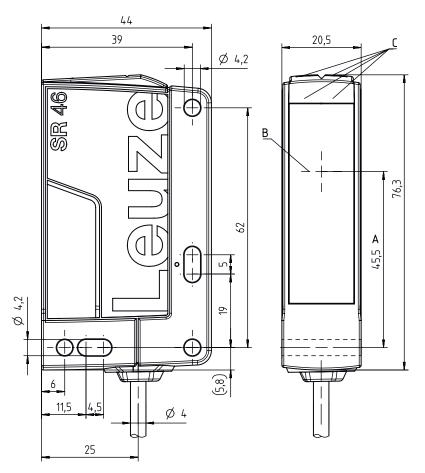


Basic data		Timing	
Series	46C	Switching frequency	250 Hz
		Response time	2.5 ms
Special version		Readiness delay	300 ms
Special version	Activation input	Connection	
unctions		Number of connections	1 Piece(s)
unctions	Activation input	Connection 1	
Characteristic parameters		Function	Signal IN
Гуре	4, IEC/EN 61496, in combination with	Type of connection	Voltage supply Cable
NII	MSI-TRMB safety relay	Cable length	2,000 mm
BIL	3, IEC 61508, in combination with MSI- TRMB safety relay	Sheathing material	PUR
SILCL	3, IEC/EN 62061, in combination with	Number of conductors	4 -wire
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	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 _d	900 years, EN ISO 13849-1		
Mission time T _M	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
		Plastic housing	PC-PBT
Optical data		Lens cover material	Plastic / PMMA
Operating range	5 70 m	Net weight	100 g
Operating range limit	5 80 m	Housing color	Yellow
ight source	LED, Infrared	Type of fastening	Through-hole mounting
.ED light wavelength	940 nm	Compatibility of materials	ECOLAB
ransmitted-signal shape	Pulsed		
.ED group	1	Operation and display	
Opening angle, max.	-2.5 2.5 °	Type of display	LED
3. 3.,		Number of LEDs	2 Piece(s)
Electrical data			
Protective circuit	Polarity reversal protection	Environmental data	
	Short circuit protected	Ambient temperature, operation	-30 60 °C
		Ambient temperature, storage	-30 70 °C
Performance data			
Supply voltage U _B	24 V, DC, -20 20 %, Incl. residual ripple	Certifications	
Residual ripple	10 %, From U _B	Degree of protection	IP 67
Open-circuit current	0 40 mA		IP 69K
		Protection class	III, Rating voltage 50 V
Inputs		Certifications	c TÜV NRTL US
Number of activation inputs	1 Piece(s)		c UL US
		Standards applied	IEC 60947-5-2, IEC/EN 61496
Activation inputs		o	
Voltage type	DC	Classification	
Switching voltage	high: ≥8V	Customs tariff number	85365019
	low: ≤1.5V	eCl@ss 5.1.4	27272701
Switching voltage high, min.	8 V	eCl@ss 8.0	27272701
Switching voltage low, max.	1.5 V	eCl@ss 9.0	27272701
Activation/disable delay	1 ms	eCl@ss 10.0	27272701
Input resistance	10,000 Ω, -30 30 %	eCl@ss 11.0	27272701
		ETIM 5.0	EC001831
Activation input 1 Assignment	Connection 1, conductor 4	ETIM 6.0	EC001831

Dimensioned drawings

Leuze

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 ²

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

Pai	rt no.	Designation	Article	Description
501	126333			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
- 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
() () () () () () () () () () () () () (547931	MSI-TRMB-01	Safety relay	
4	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.