

Technical data sheet Single beam safety device transmitter

Part no.: 50126545

SLS46C-40.K48

Figure can vary

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- Dimensioned drawings
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Technical data

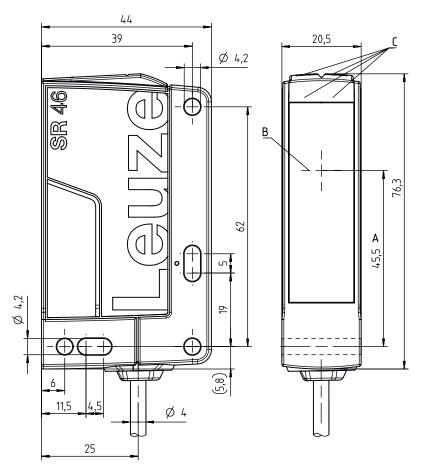


Epecial version Functions Functions Characteristic parameters Type SIL	Activation input Activation input 4, IEC/EN 61496, in combination with MSI-TRMB safety relay 3, IEC 61508, in combination with MSI-TRMB safety relay 3, IEC/EN 62061, in combination with	Response time Readiness delay Connection Number of connections Connection 1 Function Type of connection Cable length Sheathing material	2.5 ms 300 ms 1 Piece(s) Signal IN Voltage supply Cable
	Activation input 4, IEC/EN 61496, in combination with MSI-TRMB safety relay 3, IEC 61508, in combination with MSI-TRMB safety relay	Connection Number of connections Connection 1 Function Type of connection Cable length	1 Piece(s) Signal IN Voltage supply Cable
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ype IL	MSI-TRMB safety relay 3, IEC 61508, in combination with MSI-TRMB safety relay	Type of connection Cable length	Voltage supply Cable
IL ILCL	MSI-TRMB safety relay 3, IEC 61508, in combination with MSI-TRMB safety relay	Cable length	Cable
ILCL	3, IEC 61508, in combination with MSI- TRMB safety relay	-	0.000
SILCL	TRMB safety relay	Sheathing material	2,000 mm
SILCL Performance Level (PL)			PUR
Performance Level (PL)		Number of conductors	4 -wire
Performance Level (PL)	MSI-TRMB safety relay	Wire cross section	0.21 mm ²
enormance Level (i L)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Mechanical data	
/ITTF _d	900 years, EN ISO 13849-1	Danima	Cubic
∕lission time T _M	20 years, EN ISO 13849-1	Design	Cubic 20.5 mm v 76.3 mm v 44 mm
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 housing	Plastic PC-PBT
Optical data		Lens cover material	PC-PBT Plastic / PMMA
optical data			
Operating range	0.25 40 m	Net weight	100 g Yellow
Operating range limit	0.25 48 m	Housing color	
ight source	LED, Red	Type of fastening	Through-hole mounting
.ED light wavelength	630 nm	Compatibility of materials	ECOLAB
ransmitted-signal shape	Pulsed	Operation and display	
.ED group	1		
Opening angle, max.	-2.5 2.5 °	Type of display	LED
Electrical data		Number of LEDs	2 Piece(s)
Protective circuit	Polarity reversal protection	Environmental data	
	Short circuit protected	Ambient temperature, operation	-30 60 °C
	onort sin suit protestou	Ambient temperature, storage	-30 70 °C
Performance data			
Supply voltage U _B	24 V, DC, -20 20 %, Incl. residual ripple	Certifications	77.10
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)	Standards applied	c UL US IEC 60947-5-2, IEC/EN 61496
Activation innuts		- Landardo appilod	
Activation inputs Voltage type	DC	Classification	
Switching voltage	high: ≥8V	Customs tariff number	85365019
3 - 3-3-3-	low: ≤1.5V	eCl@ss 5.1.4	27272701
Switching voltage high, min.	8 V	eCl@ss 5.1.4 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		ETIM 6.0	EC001831
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

Part no.	Designation	Article	Description
50126327	SLE46C-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.
- 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
· · · · · · · · · · · · · · · · · · ·	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

		9 9 10 1110		
	Part no.	Designation	Article	Description
1	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.