

Technical data sheet Single beam safety device transmitter

Part no.: 50126546

SLS46C-40.K48-M12



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Technical data

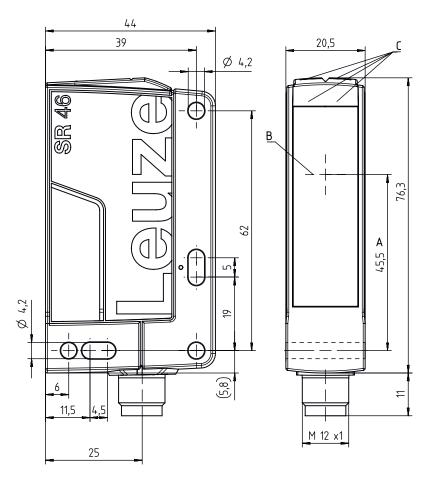


		Timing	
eries	46C	Switching frequency	250 Hz
		Response time	2.5 ms
Special version		Readiness delay	300 ms
Special version Activation input		Connection	
Functions		Number of connections	1 Piece(s)
Functions	Activation input	Connection 1	
Characteristic parameters		Function	Signal IN
T	4, IEC/EN 61496, in combination with		Voltage supply
Туре	MSI-TRMB safety relay	Type of connection	Connector
SIL	3, IEC 61508, in combination with MSI-	Thread size	M12
	TRMB safety relay	Material	Plastic
SILCL	3, IEC/EN 62061, in combination with MSI-TRMB safety relay	No. of pins	4 -pin
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	Design	Cubic
Mission time T _M	20 years, EN ISO 13849-1	Dimension (W x H x L)	20.5 mm x 76.3 mm x 44 mm
Category	4, EN ISO 13849:2008, In combination	Housing material	Plastic
outogo: y	with MSI-TRMB safety relay	Plastic housing	PC-PBT
	•	Lens cover material	Plastic / PMMA
Optical data		Net weight	50 g
Onerating range	0.25 40 m	Housing color	Yellow
Operating range		Type of fastening	Through-hole mounting
Operating range limit	0.25 48 m	Compatibility of materials	ECOLAB
Light source	LED, Red		
LED light wavelength	630 nm	Operation and display	
Transmitted-signal shape	Pulsed	Type of display	LED
LED group	1	Number of LEDs	2 Piece(s)
Opening angle, max.	-2.5 2.5 °		21 1000(3)
Electrical data		Environmental data	
Protective circuit	Polarity reversal protection	Ambient temperature, operation	-30 60 °C
	Short circuit protected	Ambient temperature, storage	-30 70 °C
		Cortifications	
Performance data	24 V DO 20 20 00 V last residual	Certifications	
Performance data Supply voltage U _B	24 V, DC, -20 20 %, Incl. residual	Degree of protection	IP 67
Supply voltage U _B	ripple	Degree of protection	IP 69K
Supply voltage U _B Residual ripple	ripple 10 %, From U _B	Degree of protection Protection class	IP 69K III, Rating voltage 50 V
Supply voltage U _B	ripple	Degree of protection	IP 69K III, Rating voltage 50 V c TÜV NRTL US
Supply voltage U _B Residual ripple Open-circuit current	ripple 10 %, From U _B	Degree of protection Protection class Certifications	IP 69K III, Rating voltage 50 V
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Supply voltage U _B Residual ripple Open-circuit current Inputs	ripple 10 %, From U _B 0 40 mA	Degree of protection Protection class Certifications	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs	ripple 10 %, From U _B 0 40 mA	Degree of protection Protection class Certifications Standards applied	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs	ripple 10 %, From U _B 0 40 mA 1 Piece(s)	Degree of protection Protection class Certifications Standards applied Classification	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type	ripple 10 %, From U _B 0 40 mA 1 Piece(s)	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type	ripple 10 %, From U _B 0 40 mA 1 Piece(s) DC high: ≥8V	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number eCl@ss 5.1.4	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496 85365019 27272701
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type Switching voltage	ripple 10 %, From U _B 0 40 mA 1 Piece(s) DC high: ≥8V low: ≤1.5V	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496 85365019 27272701 27272701
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type Switching voltage Switching voltage high, min.	ripple 10 %, From U _B 0 40 mA 1 Piece(s) DC high: ≥8V low: ≤1.5V 8 V	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 9.0 eCl@ss 10.0	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496 85365019 27272701 27272701 27272701
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type Switching voltage Switching voltage high, min. Switching voltage low, max.	ripple 10 %, From U _B 0 40 mA 1 Piece(s) DC high: ≥8V low: ≤1.5V 8 V 1.5 V	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 10.0 eCl@ss 11.0	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496 85365019 27272701 27272701 27272701 27272701 27272701
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type Switching voltage Switching voltage high, min. Switching voltage low, max. Activation/disable delay	ripple 10 %, From U _B 0 40 mA 1 Piece(s) DC high: ≥8V low: ≤1.5V 8 V 1.5 V 1 ms	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 10.0 eCl@ss 11.0 ETIM 5.0	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496 85365019 27272701 27272701 27272701 27272701 27272701 EC001831
Supply voltage U _B Residual ripple Open-circuit current Inputs Number of activation inputs Activation inputs Voltage type Switching voltage Switching voltage high, min. Switching voltage low, max. Activation/disable delay	ripple 10 %, From U _B 0 40 mA 1 Piece(s) DC high: ≥8V low: ≤1.5V 8 V 1.5 V 1 ms	Degree of protection Protection class Certifications Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 10.0 eCl@ss 11.0	IP 69K III, Rating voltage 50 V c TÜV NRTL US c UL US IEC 60947-5-2, IEC/EN 61496 85365019 27272701 27272701 27272701 27272701 27272701

Dimensioned drawings

Leuze

All dimensions in millimeters



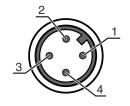
- Optical axis
- В Transmitter and receiver
- Green/yellow indicator diodes

Electrical connection

Connection 1

Function	Signal IN
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment	Conductor color
1	+24V	Brown
2	n.c.	White
3	GND	Blue
4	Active	Black







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

Suitable receivers

	Part no.	Designation	Article	Description
The same of the sa	50126328	SLE46C-40.K4/4P- M12	Single beam safety device receiver	Response time: 2.5 ms Connection: Connector, M12, Plastic, 4 -pin

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
- 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
発性	547931	MSI-TRMB-01	Safety relay	
	547932	MSI-TRMB-02	Safety relay	

Connection technology - Connection cables

Part no.	Designation	Article	Description
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

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
E13	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

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

Accessories



Note



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