

Technical data sheet Single light beam safety device transmitter

Part no.: 50126549

SLS46CI-40.K48



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Technical data



Basic data		Time behavior	
Series	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
Туре	4, IEC/EN 61496, in combination with	Type of connection	Voltage supply Cable
	MSI-TRMB safety relay	Cable length	2,000 mm
SIL	3, IEC 61508, in combination with MSI- TRMB safety relay	Sheathing material	PUR
SILCL	3, IEC/EN 62061, in combination with MSI-TRMB safety relay	Number of conductors Wire cross section	4 -wire 0.21 mm ²
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Mechanical data	0.21 11111
MTTF _d	900 years, EN ISO 13849-1	Wechanical data	
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	0.25 40 m	Net weight	50 g
Operating range limit	0.25 48 m	Housing color	Yellow
Light source	LED, Infrared	Type of fastening	Through-hole mounting
Wavelength	940 nm	Compatibility of materials	ECOLAB
Transmitted-signal shape	Pulsed		
LED 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		Environmental data	
Protective circuit	Polarity reversal protection		
	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	Certifications	
Residual ripple	ripple	Degree of protection	IP 67
Open-circuit current	10 %, From U _B 0 40 mA		IP 69K
Open-circuit current	0 40 IIIA	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 Voltage type	DC	Classification	
Switching voltage	high: ≥8V	Customs tariff number	85365019
3 1 1 3	low: ≤ 1.5 V	ECLASS 5.1.4	27272701
Switching voltage high, min.	8 V	ECLASS 8.0	27272701
Switching voltage low, max.	1.5 V	ECLASS 9.0	27272701
Activation/disable delay	1 ms		
Input resistance	10,000 Ω, -30 30 %	ECLASS 10.0 ECLASS 11.0	27272701 27272701
	·,···· , · · · · · · · · · · · · · · ·	ECLASS 12.0	
Activation input 1			27272701
Assignment	Connection 1, conductor 4	ECLASS 13.0	27272701
Active switching state	High	ECLASS 14.0	27272701
-	-	ETIM 6.0	EC001831
		ETIM 6.0	EC001831
		ETIM 7.0	EC001831
		ETIM 8.0	EC001831

ETIM 9.0

info@leuze.com • www.leuze.com

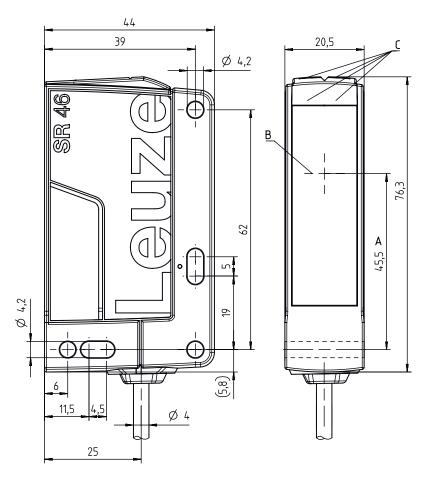
EC001831

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Dimensioned drawings

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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	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	+24 V
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

F	Part no.	Designation	Article	Description
	50126331			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:



- 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
出土 出土 対土	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

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Note



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