

Technical data sheet Single beam safety device transmitter

Part no.: 50126545 SLS46C-40.K48



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Technical data

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250 Hz

2.5 ms

300 ms

1 Piece(s)

Signal IN Voltage supply

2,000 mm

Cable

PUR

4 -wire

Cubic

100 g

Yellow

ECOLAB

2 Piece(s)

-30 ... 60 °C

-30 ... 70 °C

LED

Plastic, PC-PBT

Plastic / PMMA

Through-hole mounting

20.5 mm x 76.3 mm x 44 mm

0.21 mm²

Basic data	
Series	46C
Special design	
Special design	Activation input
Functions	
Functions	Activation input
Characteristic parameters	
Туре	4, IEC/EN 61496, in combination with MSI-TRMB safety relay
SIL	3, IEC 61508, in combination with MSI- TRMB safety relay
SILCL	3, IEC/EN 62061, in combination with MSI-TRMB safety relay
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay
MTTF _d	900 years, EN ISO 13849-1
Mission time T _M	20 years, EN ISO 13849-1
" Category	4, EN ISO 13849:2008, In combination with MSI-TRMB safety relay
Optical data	
Operating range	0.25 40 m
Operating range limit	0.25 48 m
Light source	LED, Red
LED light wavelength	630 nm
Transmitted-signal shape	Pulsed
LED group	1
Opening angle, max.	-2.5 2.5 °
Electrical data	
Protective circuit	Polarity reversal protection
	Short circuit protected
Performance data	
Supply voltage U _B	24 V, DC, -20 20 %, Incl. residual ripple
Residual ripple	10 %, From U _B
Open-circuit current	0 40 mA
Inputs	
Number of activation inputs	1 Piece(s)
Activation inputs	
Voltage type	DC
Switching voltage	high: ≥8V Iow: ≤1.5V
Switching voltage high, min.	8 V
Switching voltage low, max.	1.5 V
Activation/disable delay	1 ms
Input resistance	10,000 Ω, -30 30 %
Activation input 1	
Assignment	Connection 1, conductor 4
Active switching state	High

Active switching state

High

Type of display Number of LEDs **Environmental data** Ambient temperature, operation Ambient temperature, storage

Timing

Switching frequency

Number of connections

Type of connection

Sheathing material

Wire cross section

Number of conductors

Connection 1 Function

Cable length

Mechanical data

Housing material

Net weight

Housing color

Type of fastening

Compatibility of materials

Operation and display

Lens cover material

Dimension (W x H x L)

Design

Response time

Connection

Readiness delay

Certifications

Degree of protection	IP 67
	IP 69K
Protection class	III
Certifications	c TÜV NRTL US
	c UL US
Standards applied	IEC 60947-5-2, IEC/EN 61496
Classification	

Customs tariff number	85365019	
eCl@ss 8.0	27272701	
eCl@ss 9.0	27272701	
ETIM 5.0	EC001831	
ETIM 6.0	EC001831	

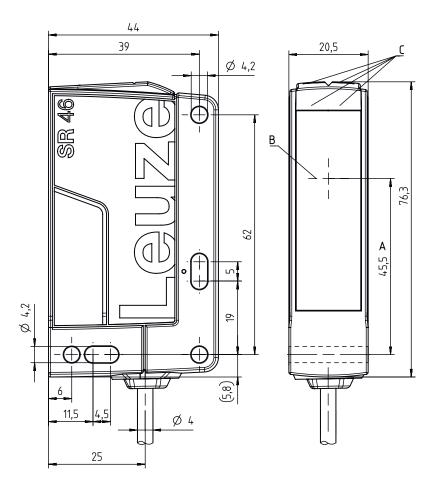
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Dimensioned drawings

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All dimensions in millimeters



- А Optical axis
- В Transmitter and receiver
- С 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

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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!

 $\ensuremath{^{\ensuremath{\Downarrow}}}$ The product may only be put into operation by competent persons.

b Only use the product in accordance with its intended use.



ATTENTION!

b The SLS46CK4 safety sensors are a type 4 AOPD only in combination with the MSI-TRM safety relays.

b For mounting, electrical connection and operation, the operating instructions of the MSI-TRM safety relays are to be observed.

For UL applications: Image: Second Second

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

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Accessories

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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
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
F :	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

