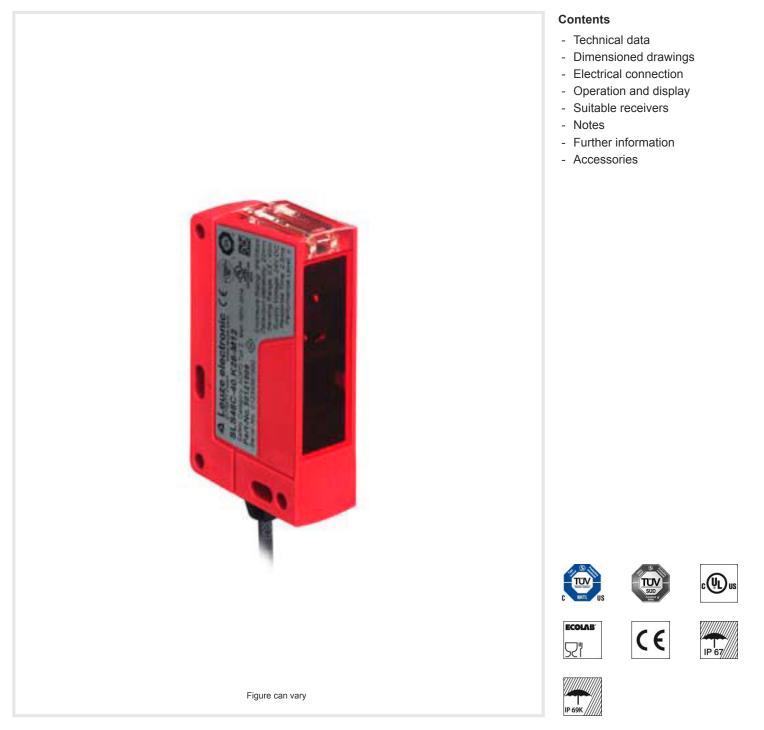


## **Technical data sheet** Single beam safety device transmitter Part no.: 50121910

SLS46C-40.K28



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### **Technical data**

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Basic data	
Series	46C
Functions	
Functions	Activation input
Characteristic parameters	
Туре	2, IEC/EN 61496, in combination with a suitable test monitoring unit, e.g. MSI- TR1B
SIL	1, IEC 61508, in combination with a suitable test monitoring unit, e.g. MSI- TR1B
SILCL	1, IEC/EN 62061, in combination with a suitable test monitoring unit, e.g. MSI- TR1B
Performance Level (PL)	c, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay
MTTF <sub>d</sub>	400 years, EN ISO 13849-1
PFH <sub>D</sub>	3E-10 per hour
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1
Category	2, EN ISO 13849, In combination with a suitable test monitoring unit, e.g. MSI- TR1B
Optical data	
Operating range	0.5 40 m
Operating range limit	0.5 48 m
Light source	LED, Red
LED light wavelength	630 nm
Transmitted-signal shape	Pulsed
LED group	1
Opening angle, max.	-5 5 °
Electrical data	
Protective circuit	Polarity reversal protection
	Short circuit protected
Performance data	
Supply voltage U <sub>B</sub>	24 V, DC, -20 20 %, Incl. residual ripple
Residual ripple	10 %, From U <sub>B</sub>
Open-circuit current	0 40 mA
Inputs Number of activation inputs	1 Bioco(c)
Number of activation inputs	1 Piece(s)
Activation inputs	
Voltage type	DC
Switching voltage	high: ≥8V
	low: ≤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

#### Timing Switching frequency 250 Hz Response time 2.5 ms Readiness delay 300 ms Connection Number of connections 1 Piece(s) **Connection 1** Function Signal IN Voltage supply Type of connection Cable Cable length 2,000 mm Sheathing material PUR Number of conductors 4 -wire Wire cross section 0.21 mm<sup>2</sup> Mechanical data Design Cubic Dimension (W x H x L) 20.5 mm x 76.3 mm x 44 mm Housing material Plastic, PC-PBT Lens cover material Plastic / PMMA Net weight 100 g Housing color Red Type of fastening Through-hole mounting Compatibility of materials ECOLAB **Operation and display** Type of display I FD Number of LEDs 2 Piece(s) **Environmental data** -30 ... 60 °C Ambient temperature, operation Ambient temperature, storage -30 ... 70 °C Certifications IP 67 Degree of protection IP 69K Protection class Ш Certifications c TÜV NRTL US c UL US TÜV Süd IEC 60947-5-2, IEC/EN 61496 Standards applied Classification Customs tariff number 85365019 eCl@ss 8.0 27272701 eCl@ss 9.0 27272701 **ETIM 5.0** EC001831

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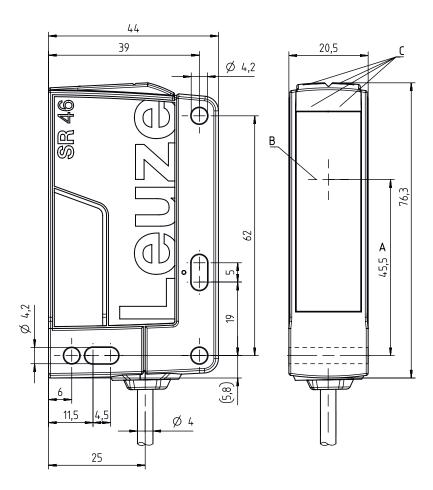
**ETIM 6.0** 

EC001831

### **Dimensioned drawings**

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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 mm²

#### **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
50121918	SLE46C-40.K2/4P	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.

Only use the product in accordance with its intended use.

#### For UL applications:

& Certification: 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
Annual Contraction	547958	MSI-TR1B-01	Safety relay	

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#### Accessories

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 Part no.	Designation	Article	Description
547959	MSI-TR1B-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

### Mounting technology - Rod mounts

 Part no.	Designation	Article	Description
50122797	BTU 346M-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 Type of mounting device: Turning, 360°, Adjustable, Clampable Material: Metal

#### Muting - Mounting systems

	Part no.	Designation	Article	Description
<b>(</b>	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

