



Figure can vary

Part no.: 50121922  
**SLE46CI-40.K2/4P**  
Single beam safety device receiver



## Contents

- Technical data
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## Technical data

<b>Basic data</b>	
Series	46C
<b>Functions</b>	
Functions	Alignment indicator Diagnostic output
<b>Characteristic parameters</b>	
Type	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 a suitable test monitoring unit, e.g. MSI-TR1B
MTTF <sub>d</sub>	400 years, EN ISO 13849-1
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1
Category	2, EN ISO 13849:2008, In combination with a suitable test monitoring unit, e.g. MSI-TR1B
<b>Electrical data</b>	
Protective circuit	Short circuit protected Polarity reversal protection
<b>Performance data</b>	
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 ... 15 mA
<b>Outputs</b>	
Number of digital switching outputs	2 Piece(s)
<b>Switching outputs</b>	
Switching voltage high, min.	22 V
Switching voltage low, max.	2 V
Switching voltage, typ.	23 V
Voltage type	DC
Switching current, max.	100 mA
Switching voltage	High: ≥(U <sub>B</sub> -2V) Low: ≤2V
<b>Switching output 1</b>	
Assignment	Connection 1, conductor 2
Switching element	Transistor, PNP
Switching principle	Dark switching
Function	Diagnostic output
<b>Switching output 2</b>	
Assignment	Connection 1, conductor 4
Switching element	Transistor, PNP
Switching principle	Light switching
Function	Switching output
<b>Timing</b>	

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Switching frequency	250 Hz
Response time	2.5 ms
Readiness delay	300 ms

**Connection**

Number of connections	1 Piece(s)
<b>Connection 1</b>	
Type of connection	Cable
Function	Voltage supply Signal OUT
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	50 g
Housing color	Red
Type of fastening	Through-hole mounting
Compatibility of materials	ECOLAB

**Operation and display**

Type of display	LED
Number of LEDs	2 Piece(s)

**Environmental data**

Ambient temperature, operation	-30 ... 60 °C
Ambient temperature, storage	-30 ... 70 °C

**Certifications**

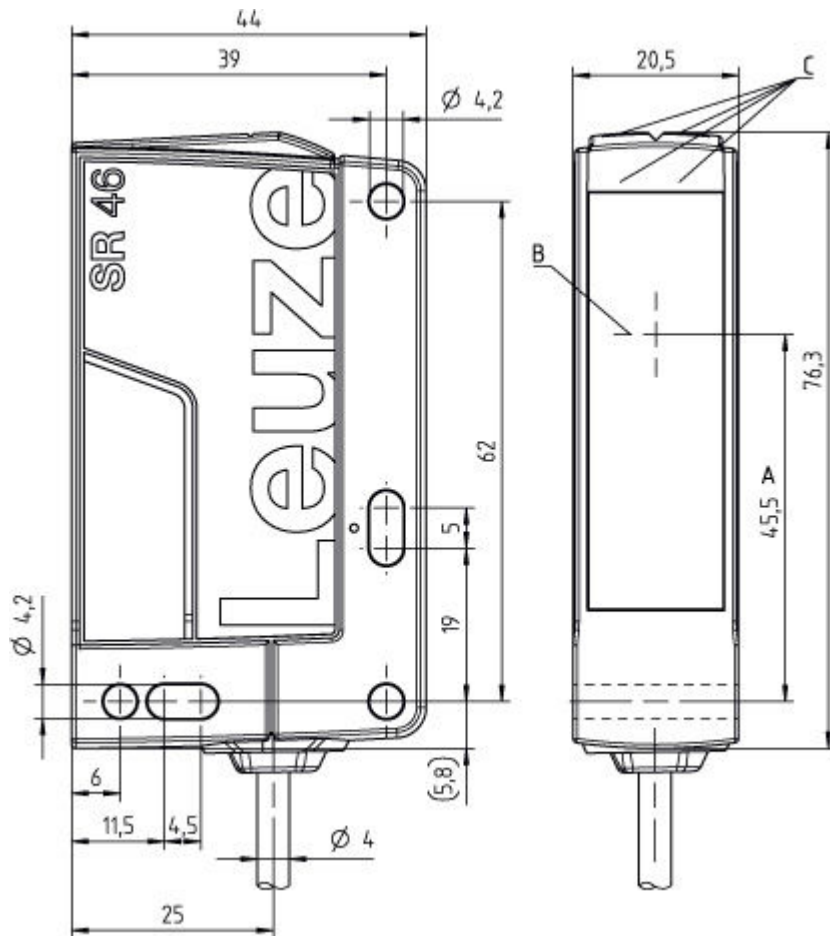
Degree of protection	IP 69K IP 67
Protection class	III, Rating voltage 50 V
Certifications	c TÜV NRTL US c UL US TÜV Süd
Standards applied	IEC 60947-5-2, IEC/EN 61496

**Classification**

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

## Dimensioned drawings

All dimensions in millimeters



- A Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

## Electrical connection

Connection 1	
Type of connection	Cable
Function	Voltage supply Signal OUT
Cable length	2,000 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.21 mm <sup>2</sup>

Conductor color	Conductor assignment
Brown	V+
White	Diagnosis
Blue	GND

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Conductor color	Conductor assignment
Black	OUT

## Operation and display

### LEDs

LED	Display	Meaning
1	Green, continuous light	Ready
2	Yellow, continuous light	Light path free

## Suitable transmitters

	Part no.	Designation	Article	Description
	50121914	SLS46CI-40.K28	Single beam safety device transmitter	Operating range: 0.5 ... 40 m Operating range limit: 0.5 ... 48 m Light source: LED, Infrared 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.

### 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)

- Light source: Average life expectancy 100,000 h at an ambient temperature of 25 °C

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## Accessories




### Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	50118543	BT 300M.5	Mounting bracket	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Stainless steel
	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
	50117253	BTU 300M-D10	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers Design of mounting device: Mounting system Fastening, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50117252	BTU 300M-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers 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: Clampable, Adjustable, Turning, 360° Material: Metal
	50117251	BTU 300M-D14	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers Design of mounting device: Mounting system Fastening, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50120425	BTU 300M.5-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 2x position washers, 2x M4 mounting nut 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: Clampable, Adjustable, Turning, 360° Material: Stainless steel
	50122797	BTU 346M-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x position washers 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°, Clampable, Adjustable Material: Metal
	50122798	BTU 346M.5-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°, Clampable, Adjustable Material: Stainless steel

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	Part no.	Designation	Article	Description
	50119332	BTU 900M-D10	Mounting system	Contains: 2x M4 x 10 screw, 2x position washers Design of mounting device: Mounting system Fastening, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal
	50119331	BTU 900M-D12	Mounting system	Contains: 2x position washers, 2x M4 x 10 screw 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: Clampable, Turning, 360°, Swiveling Material: Metal
	50119330	BTU 900M-D14	Mounting system	Contains: 2x position washers, 2x M4 x 10 screw Design of mounting device: Mounting system Fastening, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal


**Mounting technology - Other**

	Part no.	Designation	Article	Description
	50136665	BTX 046M	Mounting plate	Contains: 2x M4 x 30 screw, 1 M4 x 12 screw Design of mounting device: Mounting plate Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Material: Metal

**Alignment aids**

	Part no.	Designation	Article	Description
	50129659	ARH 46C	Alignment aid	Light source: laser, Red Housing material: Metal

**Protective screens**

	Part no.	Designation	Article	Description
	50132604	SG 46C	Protective screen	Material: Glass