

Technical data sheet Single beam safety device receiver Part no.: 50121918

SLE46C-40.K2/4P



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Technical data

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Basic data

Basic data			
Series	46C		
Functions			
Functions	Alignment indicator		
	Diagnostic output		
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 _d	400 years, EN ISO 13849-1		
Mission time T _M	20 years, EN ISO 13849-1		
Category	2, EN ISO 13849:2008, In combination with a suitable test monitoring unit, e.g. MSI-TR1B		
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 15 mA		
Outputs			
Number of digital switching outputs	2 Piece(s)		
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Switching outputs			
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 _B -2V)		
	Low: ≤2V		
Switching output 1	Connection 1. conductor 2		
Assignment	Connection 1, conductor 2		
Switching element	Transistor, PNP		
Switching principle Function	Dark switching		
FUNCTION	Diagnostic output		
Switching output 2			
Assignment	Connection 1, conductor 4		
Switching element	Transistor, PNP		
Switching principle	Light switching		
Function	Switching output		

Switching frequency 250 Hz Response time 2.5 ms Readiness delay 300 ms Connection IPiece(s) Number of connections 1 Piece(s) Connection 1 Signal OUT Voltage supply Function Signal OUT Voltage supply Type of connection Cable Cable length 2,000 mm Sheathing material PUR Number of conductors 4 -wire Wire cross section 0.21 mm² Mechanical data Pustic, PC-PBT Lens cover material Plastic, PC-PBT Lens cover material Plastic / PMMA Net weight 100 g Housing color Red Type of display LED Number of LEDs 2 Piece(s) Environmental data 2 Operation and display LED Number of LEDs -30 70 °C Certifications -30 70 °C Degree of protection IP 67 IP 69K Protection class III	Timing	
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Compatibility of materials ECOLAB Operation and display ED 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 IP 67 Protection class III	Housing color	Red
Operation and display LED 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 IP 67 IP 69K IP 69K Protection class III	Type of fastening	Through-hole mounting
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IP 69K Protection class III	Certifications	
Protection class III	Degree of protection	IP 67
		IP 69K
	Protection class	III
Certifications CTUV NRTL US	Certifications	c TÜV NRTL US
c UL US		c UL US
TÜV Süd		TÜV Süd
Standards applied IEC 60947-5-2, IEC/EN 61496	Standards applied	IEC 60947-5-2, IEC/EN 61496
Classification	Classification	
Customs tariff number 85365019	Customs tariff number	85365019
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eCl@ss 9.0 27272701	•	27272701
ETIM 5.0 EC001831	•	EC001831
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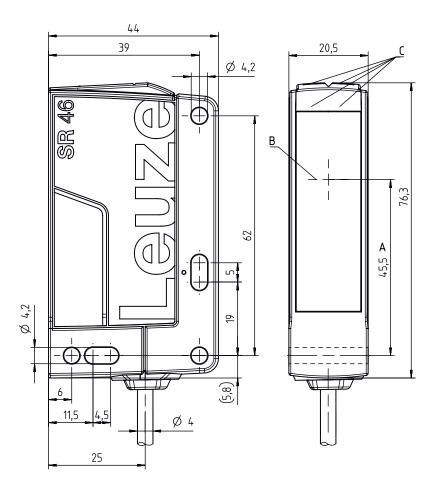
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Dimensioned drawings

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All dimensions in millimeters



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

Electrical connection

Connection 1

Function	Signal OUT
	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	Diagnosis
Blue	GND
Black	OUT

Operation and display

LED Display

1

Green, continuous light

Meaning

Ready

Operation and display

LED	Display	Meaning
2	Yellow, continuous light	Light path free

Suitable transmitters

 Part no.	Designation	Article	Description
50121910	SLS46C-40.K28	Single beam safety device transmitter	Operating range: 0.5 40 m Operating range limit: 0.5 48 m Light source: LED, Red Response time: 2.5 ms Connection: Cable, 2,000 mm, PUR

Notes



Observe intended use!

b The product may only be put into operation by competent persons.

b 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

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
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
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

