

Technical data sheet Single beam safety device transmitter

Part no.: 50121908

SLS46C-70.K28

Figure can vary

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Technical data

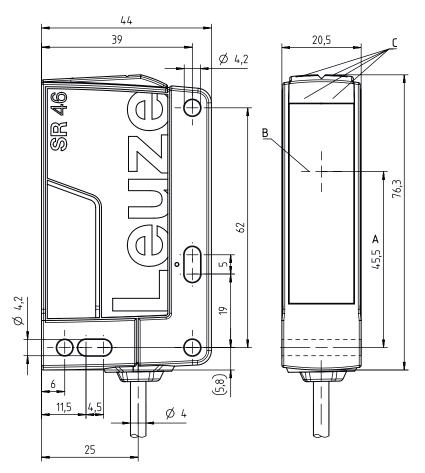


Basic data		Timing	
Series	46C	Switching frequency	250 Hz
Forestions		Response time	2.5 ms
Functions		Readiness delay	300 ms
Functions	Activation input	Connection	
Characteristic parameters		Number of connections	1 Piece(s)
Туре	2, IEC/EN 61496, in combination with a	0	
	suitable test monitoring unit, e.g. MSI- TR1B	Connection 1 Function	Signal IN
SIL	1, IEC 61508, in combination with a	runction	Voltage supply
	suitable test monitoring unit, e.g. MSI-	Type of connection	Cable
	TR1B	Cable length	2,000 mm
SILCL	1, IEC/EN 62061, in combination with a suitable test monitoring unit, e.g. MSI-	Sheathing material	PUR
	TR1B	Number of conductors	4 -wire
Performance Level (PL)	c, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Wire cross section	0.21 mm²
MTTF _d	400 years, EN ISO 13849-1	Mechanical data	
PFH _D	3E-10 per hour		Outie
Mission time T _M	20 years, EN ISO 13849-1	Design	Cubic
Category	2, EN ISO 13849, In combination with a	Dimension (W x H x L)	20.5 mm x 76.3 mm x 44 mm
	suitable test monitoring unit, e.g. MSI-	Housing material	Plastic, PC-PBT
	TR1B	Lens cover material	Plastic / PMMA
Optical data		Net weight	100 g
Optical data		Housing color	Red
Operating range	5 70 m	Type of fastening	Through-hole mounting
Operating range limit	5 80 m	Compatibility of materials	ECOLAB
Light source	LED, Red	Operation and display	
LED light wavelength	630 nm	Operation and display	
LED group	1	Type of display	LED
Transmitted-signal shape	Pulsed	Number of LEDs	2 Piece(s)
Opening angle, max.	-5 5 °	Environmental data	
Electrical data		Ambient temperature, operation	-30 60 °C
Protective circuit	Polarity reversal protection	Ambient temperature, storage	-30 70 °C
	Short circuit protected	Certifications	
Performance data			ID 07
Supply voltage U _B	24 V, DC, -20 20 %, Incl. residual	Degree of protection	IP 67
	ripple	Protection class	IP 69K
Residual ripple	10 %, From U _B		III
Open-circuit current	0 40 mA	Certifications	c TÜV NRTL US
			c UL US
Inputs	4.85(1)	Otan danda anniia d	TÜV Süd
Number of activation inputs	1 Piece(s)	Standards applied	IEC 60947-5-2, IEC/EN 6149
Activation inputs		Classification	
Voltage type	DC	Customs tariff number	85365019
Switching voltage	high: ≥8V	eCl@ss 8.0	27272701
	low: ≤1.5V	eCl@ss 9.0	27272701
Switching voltage high, min.	8 V	ETIM 5.0	EC001831
	1.5 V	ETIM 6.0	EC001831
Switching voltage low, max.			
Activation/disable delay	1 ms		
	1 ms 10,000 Ω, -30 30 %		
Activation/disable delay			
Activation/disable delay Input resistance			

Dimensioned drawings

Leuze

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 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

Operation and display



LED	Display	Meaning
2	Yellow, continuous light	Transmitter activated

Suitable receivers

Part no.	Designation	Article	Description
50121916	SLE46C-70.K2/4P	Single beam safety device receiver	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:



- 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	
547958	MSI-TR1B-01	Safety relay		



Accessories



	Part no.	Designation	Article	Description
Brusse	547959	MSI-TR1B-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

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

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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

Note



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