

Technical data sheet Single beam safety device receiver

Part no.: 50121919

SLE46CI-70.K2/4P-M12

Figure can vary

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Technical data

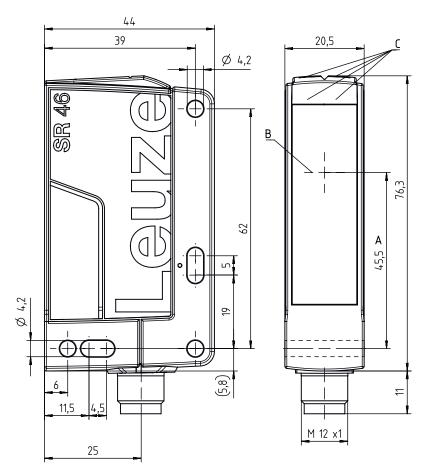


Series	46C	Switching frequency	250 Hz
From all a ma		Response time	2.5 ms
Functions		Readiness delay	300 ms
Functions	Alignment indicator	Connection	
	Diagnostic output		
Characteristic parameters		Number of connections	1 Piece(s)
Туре	2, IEC/EN 61496, in combination with a	Connection 1	
	suitable test monitoring unit, e.g. MSI-	Function	Signal OUT
	TR1B		Voltage supply
SIL	1, IEC 61508, in combination with a suitable test monitoring unit, e.g. MSI-	Type of connection	Connector
	TR1B	Thread size	M12
SILCL	1, IEC/EN 62061, in combination with a	Material	Plastic
	suitable test monitoring unit, e.g. MSI-	No. of pins	4 -pin
	TR1B	Machanical data	
Performance Level (PL)	c, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Mechanical data	
MTTF _d	400 years, EN ISO 13849-1	Design	Cubic
Mission time T _M	20 years, EN ISO 13849-1	Dimension (W x H x L)	20.5 mm x 76.3 mm x 44 mm
Category	2, EN ISO 13849:2008, In combination	Housing material	Plastic, PC-PBT
	with a suitable test monitoring unit, e.g.	Lens cover material	Plastic / PMMA
	MSI-TR1B	Net weight	50 g
		Housing color	Red
Electrical data		Type of fastening	Through-hole mounting
Protective circuit	Polarity reversal protection	Compatibility of materials	ECOLAB
	Short circuit protected	Operation and display	
Performance data		Type of display	LED
Supply voltage U _R	24 V, DC, -20 20 %, Incl. residual	Number of LEDs	
5 5	ripple	Number of LEDS	2 Piece(s)
Residual ripple	10 %, From U _B	Environmental data	
Open-circuit current	0 15 mA	A self-residence of the self-residence	00 00 00
		Ambient temperature, operation	-30 60 °C
Outputs		Ambient temperature, storage	-30 70 °C
Number of digital switching outputs	2 Piece(s)	Certifications	
Switching outputs		Degree of protection	IP 67
Switching voltage high, min.	22 V		IP 69K
Switching voltage low, max.	2 V	Protection class	III
Switching voltage, typ.	23 V	Certifications	c TÜV NRTL US
Voltage type	DC		c UL US
Switching current, max.	100 mA		TÜV Süd
Switching voltage	high: ≥(U _B -2V)	Standards applied	IEC 60947-5-2, IEC/EN 61496
	Low: ≤2V	Classification	
Switching output 1			
Assignment	Connection 1, pin 2	Customs tariff number	85365019
Switching element	Transistor, PNP	eCl@ss 8.0	27272701
Switching principle	Dark switching	eCI@ss 9.0	27272701
Function	Diagnostic output	ETIM 5.0	EC001831
		ETIM 6.0	EC001831
Switching output 2			
Assignment	Connection 1, pin 4		
Switching element	Transistor, PNP		
Switching principle	Light switching		
Function	Switching output		

Dimensioned drawings

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All dimensions in millimeters



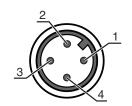
- A Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

Electrical connection

Connection 1

Function	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
1	+24V
2	Diagnosis
3	GND
4	OUT



Operation and display



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

Suitable transmitters

	Part no.	Designation	Article	Description
Company of the Compan	50121911	SLS46CI-70.K28- M12	Single beam safety device transmitter	Operating range: 5 70 m Operating range limit: 5 80 m Light source: LED, Infrared Response time: 2.5 ms Connection: Connector, M12, Plastic, 4 -pin

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
- 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	
Anny - 125	547958	MSI-TR1B-01	Safety relay		



Accessories



	Part no.	Designation	Article	Description
Brung	547959	MSI-TR1B-02	Safety relay	

Connection technology - Connection cables

Part no.	Designation	Article	Description
50130690	KD U-M12-4W-V1- 050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
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

Accessories



Note



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