

Technical data sheet Single beam safety device receiver

Part no.: 50121917

SLE46C-40.K2/4P-M12



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Technical data

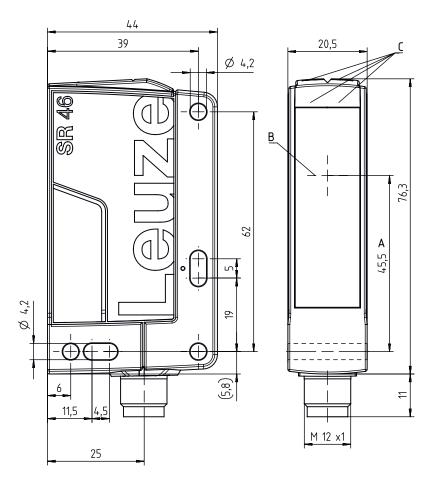


Series	46C	Switching frequency	250 Hz	
From All and		Response time	2.5 ms	
Functions		Readiness delay	300 ms	
Functions	Alignment indicator	Connection		
	Diagnostic output			
Characteristic parameters		Number of connections	1 Piece(s)	
Туре	2, IEC/EN 61496, in combination with a	Connection 1		
	suitable 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-	Material Plastic No. of pins 4 -pin 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		
	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			
5 5	ripple	Number of LEDS	2 Fiece(s)	
Residual ripple	10 %, From U _B	Environmental data		
Open-circuit current	0 15 mA	A selection of the sele	00 00 00	
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



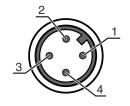
- A Optical axis
- B Transmitter and receiver
- Green/yellow indicator diodes

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







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

Suitable transmitters

	Part no.	Designation	Article	Description
A STATE OF THE PARTY OF THE PAR	50121909	SLS46C-40.K28-M12	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: 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
- ∜ 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
August 125	547958	MSI-TR1B-01	Safety relay	



Accessories



	Part no.	Designation	Article	Description
Brusse	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
(F) 3-	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.