

# **Technical data sheet** Single beam safety device receiver

Part no.: 50126330

SLE46C-70.K4/4P-M12



#### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Suitable transmitters
- Notes
- Further information
- Accessories













## **Technical data**



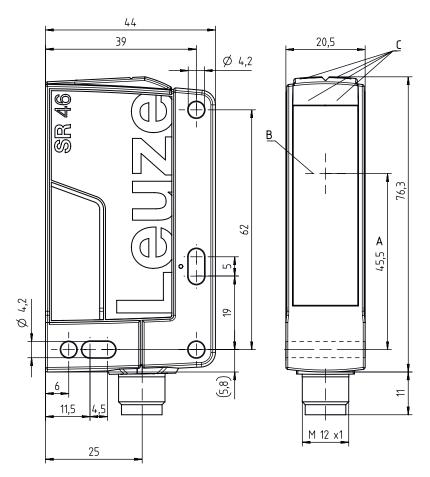
Basic data		Timing	
Series	46C	Switching frequency	250 Hz
		Response time	2.5 ms
Functions		Readiness delay	300 ms
Functions	Alignment indicator		
	Diagnostic output	Connection	
Characteristic parameters		Number of connections	1 Piece(s)
Туре	4, IEC/EN 61496, in combination with	Connection 1	
	MSI-TRMB safety relay	Function	Signal OUT
SIL	3, IEC 61508, in combination with MSI- TRMB safety relay	Type of connection	Voltage supply Connector
SILCL	3, IEC/EN 62061, in combination with	Thread size	M12
	MSI-TRMB safety relay	Material	Plastic
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	No. of pins	4 -pin
MTTF <sub>d</sub>	900 years, EN ISO 13849-1	Mechanical data	
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1		
Category	4, EN ISO 13849:2008, In combination	Design	Cubic
	with MSI-TRMB safety relay	Dimension (W x H x L)	20.5 mm x 76.3 mm x 44 mm
Electrical data		Housing material	Plastic, PC-PBT
		Lens cover material	Plastic / PMMA
Protective circuit	Polarity reversal protection	Net weight	50 g
	Short circuit protected	Housing color	Yellow
B 6		Type of fastening	Through-hole mounting
Performance data	24 V DC 20 20 0/ Incl. regiduel	Compatibility of materials	ECOLAB
Supply voltage U <sub>B</sub>	24 V, DC, -20 20 %, Incl. residual ripple	Operation and display	
Residual ripple	10 %, From U <sub>B</sub>	Type of display	LED
Open-circuit current	0 15 mA	Number of LEDs	2 Piece(s)
Outputs		Environmental data	·
Number of digital switching outputs	2 Piece(s)	A multi-mat to man a material	20 00 00
Switching outputs		Ambient temperature, operation	-30 60 °C -30 70 °C
Switching outputs Switching voltage high, min.	22 V	Ambient temperature, storage	-30 70 C
Switching voltage low, max.	2 V	Certifications	
Switching voltage, typ.	23 V		
Voltage type	DC	Degree of protection	IP 67
Switching current, max.	100 mA	Butueffered	IP 69K
Switching voltage	high: ≥(U <sub>B</sub> -2V)	Protection class	III
3	Low: ≤2V	Certifications	c TÜV NRTL US
		2	c UL US
Switching output 1		Standards applied	IEC 60947-5-2, IEC/EN 61496
Assignment	Connection 1, pin 2	Classification	
Switching element	Transistor, PNP		
Switching principle	Dark switching	Customs tariff number	85365019
Function	Diagnostic output	eCl@ss 8.0	27272701
		eCl@ss 9.0	27272701
Switching output 2		ETIM 5.0	EC001831
Assignment	Connection 1, pin 4	ETIM 6.0	EC001831
Switching element	Transistor, PNP		
Switching principle	Light switching		
Function	Switching output		

2/6

## **Dimensioned drawings**

Leuze

All dimensions in millimeters



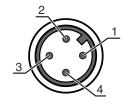
- Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

## **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	Conductor color
1	+24V	Brown
2	Diagnosis	White
3	GND	Blue
4	OUT	Black







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

### Suitable transmitters

Part no.	Designation	Article	Description
50126548	SLS46C-70.K48-M12	Single beam safety device transmitter	Special design: Activation input Operating range: 5 70 m Operating range limit: 5 80 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.

#### ATTENTION!



- ♦ The SLS46CK4 safety sensors are a type 4 AOPD only in combination with the MSI-TRM safety relays.
- 🔖 For mounting, electrical connection and operation, the operating instructions of the MSI-TRM safety relays are to be observed.

#### For UL applications:



- ♦ Certification: 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
対は	547931	MSI-TRMB-01	Safety relay	
	547932	MSI-TRMB-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) 3-1	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

## 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.