



the sensor people





Part no.: 50126548 SLS46C-70.K48-M12 Single beam safety device transmitter











Figure can vary

# **Contents**

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### **Technical data**

Basic data	
Series	46C
Special design	
Special design	Activation input
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Functions	
Functions	Activation input
Turiotiono	/ total and in the control of the co
Characteristic parameters	
Туре	4 , IEC/EN 61496, in combination with MSI-TRMB safety relay
SIL	3 , IEC 61508, in combination with MSI-TRMB safety relay
SILCL	3 , IEC/EN 62061, in combination with MSI-TRMB safety relay
Performance Level (PL)	e , EN ISO 13849-1:2008 , In combination with MSI-TRMB safety re-
	lay
MTTFd	900 years , EN ISO 13849-1
	20 years , EN ISO 13849-1
Category	4, EN ISO 13849:2008, In combination with MSI-TRMB safety relay
Optical data	
Operating range	5 70 m
Operating range limit	5 80 m
Light source	LED , Red
LED light wavelength	630 nm
Transmitted-signal shape	Pulsed
LED group	1
Opening angle, max.	-2.5 2.5 °
Electrical data	
Performance data	
Supply voltage U <sub>B</sub>	24 V , DC , -20 20 % , Incl. residual ripple
Residual ripple	10 % , From U <sub>B</sub>
Open-circuit current	0 40 mA
Inputs	
Number of activation inputs	1 Piece(s)
Activation inputs	
Voltage type	DC
Switching voltage	high: ≥8V low: ≤1.5V
Switching voltage high, min.	8 V
Switching voltage low, max.	1.5 V
Activation/disable delay	1 ms
Input resistance	10,000 Ω , -30 30 %
Activation input 1	
Assignment	Connection 1, pin 4
Active switching state	High



Switching frequency	250 Hz
Response time	2.5 ms
Readiness delay	300 ms

Connection			
Number of connections	1 Piece(s)	1 Piece(s)	
Connection 1			
Type of connection	Connector		
Function	Signal IN Voltage supply		
Thread size	M12		
Material	Plastic		
No. of pins	4 -pin		

Cubic	Cubic	
20.5 mm x 76.3 mm x 44 mm		
Plastic , PC-PBT		
Plastic / PMMA		
50 g		
Yellow		
Through-hole mounting		
ECOLAB		
	20.5 mm x 76.3 mm x 44 mm  Plastic , PC-PBT  Plastic / PMMA  50 g  Yellow  Through-hole mounting	

Operation and display		
Type of display	LED	
Number of LEDs	2 Piece(s)	

Environmental data		
Ambient temperature, operation	-30 60 °C	
Ambient temperature, storage	-30 70 °C	

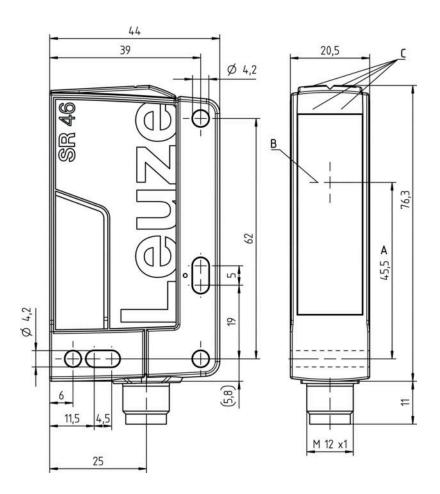
Certifications	
Degree of protection	IP 67 IP 69K
Protection class	III , Rating voltage 50 V
Certifications	c TÜV NRTL US c UL US
Standards applied	IEC 60947-5-2, IEC/EN 61496

Classification		
Customs tariff number	85365019	
eCl@ss 8.0	27272701	
eCl@ss 9.0	27272701	
ETIM 5.0	EC001831	
ETIM 6.0	EC001831	



### **Dimensioned drawings**

All dimensions in millimeters

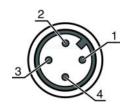


- A Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

### **Electrical connection**

Connection 1		
Type of connection	Connector	
Function	Signal IN Voltage supply	
Thread size	M12	
Туре	Male	
Material	Plastic	
No. of pins	4 -pin	
Encoding	A-coded	

Pin	Pin assignment	Conductor color
1	+24V	Brown
2	n.c.	White
3	GND	Blue
4	Active	Black





### Operation and display

#### **LEDs**

LED	Display	Meaning
1	Green, continuous light	Ready
2	Yellow, continuous light	Transmitter activated

#### Suitable receivers

	Part no.	Designation	Article	Description
The same of the sa	50126330	SLE46C-70.K4/ 4P-M12	Single beam safety device receiver	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
- 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)
- · 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
11 社会社	547931	MSI-TRMB-01	Safety relay	
At HE	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
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	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers 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 electronic website in the Download tab of the article detailed page.