



the sensor people





Part no.: 50121919 SLE46CI-70.K2/4P-M12 Single beam safety device receiver











IP 67



Figure can vary

Contents

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Technical data

Basic data			
Series	46C		
Conco			
Functions			
Functions	Alignment indicator		
- 4.15.00.16	Diagnostic output		
Characteristic parameters			
Туре	2 , IEC/EN 61496, in combination with a suitable test monitoring unit, e.g. MSI-TR1B		
SIL	1 , IEC 61508, in combination with a suitable test monitoring unit, e.g MSI-TR1B		
SILCL	1 , IEC/EN 62061, in combination with a suitable test monitoring unit, e.g. MSI-TR1B		
Performance Level (PL)	c , EN ISO 13849-1:2008 , In combination with MSI-TRMB safety relay		
MTTF _d	400 years , EN ISO 13849-1		
Mission time T _M	20 years , EN ISO 13849-1		
Category	2 , EN ISO 13849:2008 , In combination with a suitable test monitoring unit, e.g. MSI-TR1B $$		
Electrical data			
Protective circuit	Polarity reversal protection Short circuit protected		
Performance data			
Supply voltage U _B	24 V , DC , -20 20 % , Incl. residual ripple		
Residual ripple	10 % , From U _B		
Open-circuit current	0 15 mA		
Outputs			
Number of digital switching outputs	2 Piece(s)		
Switching outputs			
Switching voltage high, min.	22 V		
Switching voltage low, max.	2 V		
Switching voltage, typ.	23 V		
Voltage type	DC		
Switching current, max.	100 mA		
Switching voltage	High: ≥(U _B -2V) Low: ≤2V		
Switching output 1			
Assignment	Connection 1, pin 2		
Switching element	Transistor , PNP		
Switching principle	Dark switching		
Function	Diagnostic output		
Switching output 2			
Assignment	Connection 1, pin 4		
Switching element	Transistor , PNP		
Switching principle	Light switching		
Function	Switching output		



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

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

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

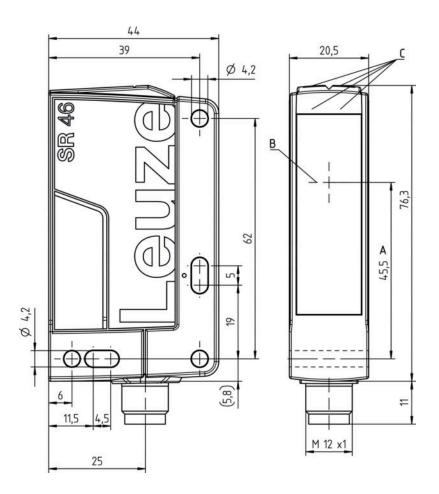
Certifications		
Degree of protection	IP 67 IP 69K	
Protection class	III , Rating voltage 50 V	
Certifications	c TÜV NRTL US c UL US TÜV Süd	
Standards applied	IEC 60947-5-2, IEC/EN 61496	

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

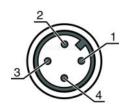


- A Optical axis
- B Transmitter and receiver
- C Green/yellow indicator diodes

Electrical connection

Connection 1			
Type of connection	Connector		
Function	Signal OUT Voltage supply		
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

LEDs

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

Suitable transmitters

	Part no.	Designation	Article	Description
To the same of the	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:

- 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)
- 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	



	Part no.	Designation	Article	Description
The state of the s	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	Contains: 2x M4 x 25 screw, 2x position washers 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°, Clampable, Adjustable 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.