

Technical data sheet Single beam safety device transmitter

Part no.: 50126546 SLS46C-40.K48-M12



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We reserve the right to make technical changes eng • 2020-06-17

Technical data

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Basic data

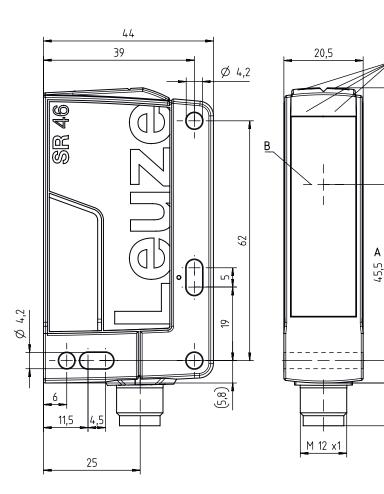
Basic data			
Series	46C		
Special design			
Special design	Activation input		
Functions			
Functions	Activation input		
Characteristic parameters			
Туре	4, IEC/EN 61496, in combination with MSI-TRMB safety relay		
SIL	3, IEC 61508, in combination with MSI-		
SILCL	TRMB safety relay 3, IEC/EN 62061, in combination with MSI-TRMB safety relay		
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination		
MTTFd	with MSI-TRMB safety relay 900 years, EN ISO 13849-1		
Mission time T _M	20 years, EN ISO 13849-1		
Category	4, EN ISO 13849:2008, In combination with MSI-TRMB safety relay		
Optical data			
Operating range	0.25 40 m		
Operating range limit	0.25 48 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			
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 40 mA		
Inputs			
Number of activation inputs	1 Piece(s)		
Activation inputs			
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		

Timing	
Switching frequency	250 Hz
Response time	2.5 ms
Readiness delay	300 ms
Connection	
Number of connections	1 Piece(s)
Connection 1	
Function	Signal IN
	Voltage supply
Type of connection	Connector
Thread size	M12
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
Lens cover material	Plastic / PMMA
Net weight	50 g
Housing color	Yellow
Type of fastening	Through-hole mounting
Compatibility of materials	ECOLAB
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
Degree of protection	IP 69K
Protection class	
Certifications	c TÜV NRTL US
Gertifications	c UL US
Standards applied	IEC 60947-5-2, IEC/EN 61496
Classification	
Customs tariff number	85365019
eCl@ss 8.0	27272701
eCl@ss 8.0 eCl@ss 9.0	27272701
ETIM 5.0	
	EC001831
ETIM 6.0	EC001831

Dimensioned drawings

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All dimensions in millimeters



A Optical axis

76,3

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

Electrical connection

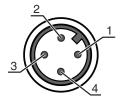
Connection 1

Function	Signal IN
	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

Conductor color

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



Operation and display

_e	U	Ζ	e

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

Suitable receivers

50126328 SLE46C-40.K4/4P- Single beam safety device receiver Response time: 2.5 ms Connection: Connector, M12, Plastic, 4 -pin	 Part no.	Designation	Article	Description
	50126328			

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.
- the 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)

Further information

- 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

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Connection technology - Connection unit

	Part no.	Designation	Article	Description
A REAL	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
E I I	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





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