

Technical data sheet Single light beam safety device transmitter

Part no.: 50126546

SLS46C-40.K48-M12

For Illustration purposes only

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Technical data



Basic data		Time behavior	
Series	46C	Switching frequency	250 Hz
		Response time	2.5 ms
Special version		Readiness delay	300 ms
Special version	Activation input	Connection	
Functions		Number of connections	1 Piece(s)
Functions	Activation input	Connection 1	
Characteristic parameters		Function	Signal IN
Туре	4, IEC/EN 61496, in combination with	Turn of commention	Voltage supply
	MSI-TRMB safety relay	Type of connection Thread size	Connector M12
SIL	3, IEC 61508, in combination with MSI- TRMB safety relay	Material	Plastic
SILCL	3, IEC/EN 62061, in combination with MSI-TRMB safety relay	No. of pins	4 -pin
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Mechanical data	
MTTF _d	900 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	4, EN ISO 13849:2008, In combination	Housing material	Plastic
	with MSI-TRMB safety relay	Plastic housing	PC-PBT
Outlead date		Lens cover material	Plastic / PMMA
Optical data		Net weight	50 g
Operating range	0.25 40 m	Housing color	Yellow
Operating range limit	0.25 48 m	Type of fastening	Through-hole mounting
Light source	LED, Red	Compatibility of materials	ECOLAB
Wavelength	630 nm	Operation and display	
Transmitted-signal shape	Pulsed	Operation and display	
LED group	1	Type of display	LED
Opening angle, max.	-2.5 2.5 °	Number of LEDs	2 Piece(s)
Electrical data		Environmental data	
Protective circuit	Polarity reversal protection	Ambient temperature, operation	-30 60 °C
	Short circuit protected	Ambient temperature, storage	-30 70 °C
Performance data		Certifications	
Supply voltage U _R	24 V, DC, -20 20 %, Incl. residual	Degree of protection	IP 67
, 5 8	ripple	Degree or protection	IP 69K
Residual ripple	10 %, From U _B	Protection class	III, Rating voltage 50 V
Open-circuit current	0 40 mA	Approvals	c UL US
		Standards applied	IEC 60947-5-2, IEC/EN 61496
Inputs	1 Diago(a)	Canidards applied	120 00047 0 2, ILO/LIN 01490
Number of activation inputs	1 Piece(s)	Classification	
Activation inputs		Customs tariff number	85365019
Voltage type	DC	ECLASS 5.1.4	27272701
Switching voltage	high: ≥8V	ECLASS 8.0	27272701
	low: ≤ 1.5 V	ECLASS 9.0	27272701
Switching voltage high, min.	8 V	ECLASS 10.0	27272701
Switching voltage low, max.	1.5 V	ECLASS 11.0	27272701
Activation/disable delay	1 ms	ECLASS 12.0	27272701
Input resistance	10,000 Ω, -30 30 %	ECLASS 13.0	27272701
		ECLASS 14.0	27272701
Activation input 1		ECLASS 15.0	27272701
Assignment	Connection 1, pin 4	ETIM 5.0	EC001831
Active switching state	High	ETIM 6.0	EC001831
		ETIM 7.0	EC001831
		ETIM 8.0	EC001831
		ETIM 9.0	EC001831

We reserve the right to make technical

changes

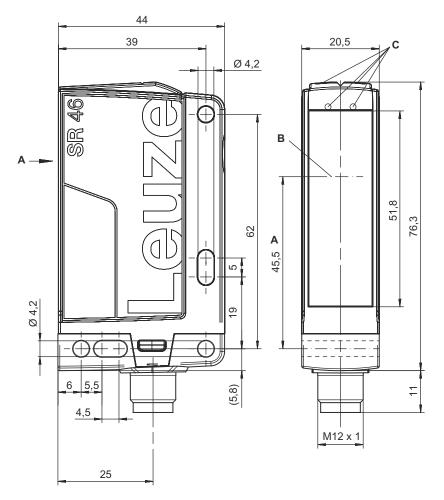
EC001831

ETIM 10.0

Dimensioned drawings

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All dimensions in millimeters



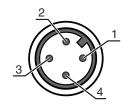
- Optical axis
- Transmitter and receiver
- Green/yellow indicator diodes

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



Operation and display



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

Suitable receivers

Part no.	Designation	Article	Description
50126328	SLE46C-40.K4/4P- M12	Single light 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.
- by 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:



- 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

- 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
The state of the s	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	Application: Chemical resistant Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: No 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

Accessories



Note



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

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