

Technical data sheet Single light beam safety device transmitter

Part no.: 50126552

SLS46CI-70.K48-M12



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Technical data



Basic data	
Series	46C
Special version	
Special version	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-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 relay
MTTF _d	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	5 70 m
Operating range limit	5 80 m
Light source	LED, Infrared
Wavelength	940 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	24 V, DC, -20 20 %, Incl. residual
Supply voltage U _B	ripple
Residual ripple	10 %, From U _B
Open-circuit current	0 40 mA
Inputs	4.50
Number of activation inputs	1 Piece(s)
Activation inputs	
Voltage type	DC
Switching voltage	high: ≥8V
- -	low: ≤ 1.5 V
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		

Time behavior

N	umber 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
Plastic housing	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		

-30 ... 60 °C

-30 ... 70 °C

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

Ambient temperature, operation

Ambient temperature, storage

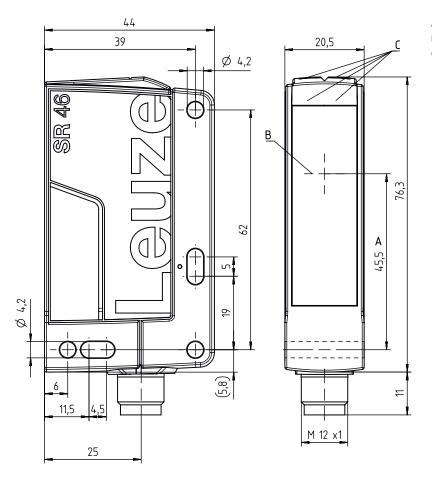
Technical data



Customs tariff number	85365019
ECLASS 5.1.4	27272701
ECLASS 8.0	27272701
ECLASS 9.0	27272701
ECLASS 10.0	27272701
ECLASS 11.0	27272701
ECLASS 12.0	27272701
ECLASS 13.0	27272701
ECLASS 14.0	27272701
ECLASS 15.0	27272701
ETIM 5.0	EC001831
ETIM 6.0	EC001831
ETIM 7.0	EC001831
ETIM 8.0	EC001831
ETIM 9.0	EC001831
ETIM 10.0	EC001831

Dimensioned drawings

All dimensions in millimeters



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

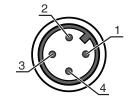
Electrical connection



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
50126334	SLE46CI-70.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.

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.

Notes



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
なた 一	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 Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Accessories



Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
(E) 3-	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

Note



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