

Technical data sheet Single beam safety device transmitter

Part no.: 50126550 SLS46CI-40.K48-M12



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We reserve the right to make technical changes eng • 2020-12-23

Technical data

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Basic data

Basic dat	ta		Timing
Series		46C	Switching
			Response
Special v	ersion		Readines
Special ve	rsion	Activation input	Connect
Function	S		Number o
Functions		Activation input	Conne
Characte	ristic parameters		Functio
Туре		4, IEC/EN 61496, in combination with	Truck
		MSI-TRMB safety relay	Type of Thread
SIL		3, IEC 61508, in combination with MSI- TRMB safety relay	Materia
SILCL		3, IEC/EN 62061, in combination with MSI-TRMB safety relay	No. of p
Performan	ce Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB safety relay	Mechani
MTTF _d		900 years, EN ISO 13849-1	Design
Mission tir	ne T _M	20 years, EN ISO 13849-1	Dimensio
Category		4, EN ISO 13849:2008, In combination with MSI-TRMB safety relay	Housing r Plastic ho Lens cove
Optical d	ata		Net weigh
Operating	range	0.25 40 m	Housing o
	range limit	0.25 48 m	Type of fa
Light sour	-	LED, Infrared	Compatib
LED light v	wavelength	940 nm	Operatio
Transmitte	ed-signal shape	Pulsed	Operatio
LED group)	1	Type of di
Opening a	ngle, max.	-2.5 2.5 °	Number o
Electrical	l data		Environr
Protective circuit		Polarity reversal protection	Ambient t
		Short circuit protected	Ambient t
			Contifica
	nance data		Certifica
	voltage U _B	24 V, DC, -20 20 %, Incl. residual ripple	Degree of
Residua		10 %, From U _B	Protection
Open-ci	rcuit current	0 40 mA	Certificati
Inputs			
	of activation inputs	1 Piece(s)	Standards
Activ	vation inputs		Classific
	ge type	DC	Customs
Switc	hing voltage	high: ≥8V	eCl@ss 5.
		low: ≤1.5V	eCl@ss 8
Switc	hing voltage high, min.	8 V	eCl@ss 9.
Switc	hing voltage low, max.	1.5 V	eCl@ss 1
Activ	ation/disable delay	1 ms	eCl@ss 1
Input	resistance	10,000 Ω, -30 30 %	ETIM 5.0
-	Alizada a la sector d		ETIM 6.0
	tivation input 1	Connection 1, pin 4	ETIM 7.0
	tive switching state	High	
AU	are switching state		

Switching frequency 250 Hz Response time 2.5 ms Readiness delay 300 ms Connection IPiece(s) Function 1 Signal IN Voltage supply Function 1 Connector Function 1 Connector Type of connection 2 M12 Material Plastic No. of pins 4 -pin Mechanical data Plastic 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 LED Number of LEDs 2 Piece(s) Environmental data -30 70 °C Certifications -30 70 °C Plaegree of protection IP 67 IP 69K Protection class III, Rating voltage 50V Certifications cTUV NRTL US Cut US CUU US	Response time Readiness delay Connection Number of connections Connection 1	2.5 ms 300 ms 1 Piece(s) Signal IN Voltage supply Connector M12
Readiness delay 300 ms Connection 1 Piece(s) Number of connections 1 Piece(s) Function Signal IN Voltage supply Type of connection Connector Thread size M12 Material Plastic No. of pins 4 -pin Mechanical data Plastic 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 LED Number of LEDs 2 Piece(s) Environmental data -30 60 °C Ambient temperature, operation -30 70 °C Certifications IP 67 IP 69K Protection class III, Rating voltage 50 V Certifications c TÜV NRTL US c UL US	Readiness delay Connection Number of connections Connection 1	300 ms 1 Piece(s) Signal IN Voltage supply Connector M12
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Ambient temperature, operation -30 60 °C Ambient temperature, storage -30 70 °C Certifications IP 67 IP 69K III, Rating voltage 50 V Certifications c TÜV NRTL US c UL US c UL US	Number of LEDs	2 Piece(s)
Ambient temperature, storage -30 70 °C Certifications IP 67 Degree of protection IP 69K Protection class III, Rating voltage 50 V Certifications c TÜV NRTL US c UL US c UL US	Environmental data	
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Protection class III, Rating voltage 50 V Certifications c TÜV NRTL US c UL US	Degree of protection	
Certifications c TÜV NRTL US c UL US		
c UL US	Protection class	
	Certifications	
Standards applied IEC 60947-5-2, IEC/EN 61496		
	Standards applied	IEC 60947-5-2, IEC/EN 61496
Classification	Classification	
Customs tariff number 85365019	Customs tariff number	85365019
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eCl@ss 8.0 27272701	eCl@ss 8.0	27272701
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-	ETIM 5.0	EC001831

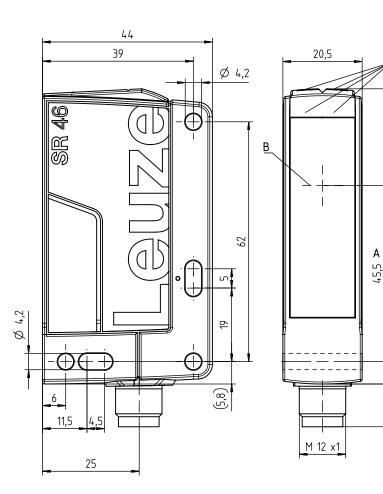
EC001831

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

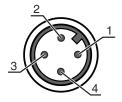
Connection 1

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

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

Suitable receivers

50126332 SLE46CI-40.K4/4P- Single beam safety device receiver Connection: Connector, M12, Plastic, 4 -pin		Part no.	Designation	Article	Description
	A DESIGNATION OF THE OWNER OWNER OF THE OWNER O	50126332			

Notes

	Observe intended use!
<u>\</u>	 ^t The product may only be put into operation by competent persons. ^t 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.
- b 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
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
513	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





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