

Technical data sheet Single beam safety device receiver Part no.: 50121922

SLE46CI-40.K2/4P



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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
Functions	
Functions	Alignment indicator
	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	
Outputs Number of digital switching outputs	$2 \operatorname{Piece}(s)$
Number of digital switching outputs	21 1666(3)
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
Qualitaching a contract d	
Switching output 1 Assignment	Connection 1, conductor 2
Switching element	Transistor, PNP
Switching principle	Dark switching
Function	Diagnostic output
	Blaghootio Output
Switching output 2	
Assignment	Connection 1, conductor 4
Switching element	Transistor, PNP
Switching principle	Light switching
Function	Switching output

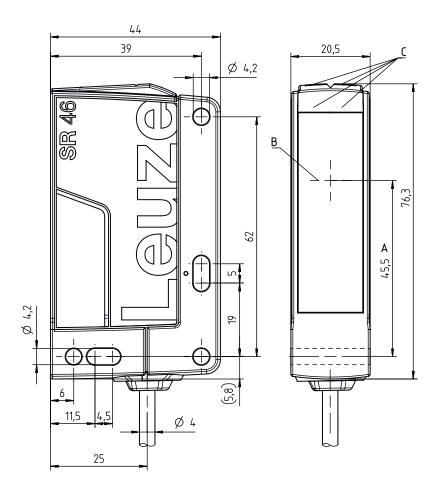
Timing				
Switching frequency	250 Hz			
Response time	2.5 ms			
Readiness delay	300 ms			
Connection				
Number of connections	1 Piece(s)			
Connection 1				
Function	Signal OUT			
	Voltage supply			
Type of connection	Cable			
Cable length	2,000 mm			
Sheathing material	PUR			
Number of conductors	4 -wire			
Wire cross section	0.21 mm ²			
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	Red			
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			
	IP 69K			
Protection class	III			
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			
	20001001			

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Dimensioned drawings

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All dimensions in millimeters



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

Electrical connection

Connection 1

Function	Signal OUT
	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.21 mm ²

Conductor color

Conductor assignment

White Diagnosis	8
	5
Blue GND	
Black OUT	

Operation and display

LED Display

1

Green, continuous light

Meaning

Ready

Operation and display

LED	Display	Meaning
2	Yellow, continuous light	Light path free

Suitable transmitters

P	Part no.	Designation	Article	Description
50	0121914		device transmitter	Operating range: 0.5 40 m Operating range limit: 0.5 48 m Light source: LED, Infrared Response time: 2.5 ms Connection: Cable, 2,000 mm, PUR

Notes



Observe intended use!

b The product may only be put into operation by competent persons.

b 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)

Further information

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	

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Accessories



 Part no.	Designation	Article	Description
547959	MSI-TR1B-02	Safety relay	

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
E13	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	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°, Adjustable, Clampable 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

