Technical data sheet
Single light beam safety device receiver
Part no.: 50126331
SLE46CI-40.K4/4P

For Illustration purposes only

Contents

Technical data

Leuze

Basic data

Series	46C

Functions

Functions	Alignment indicator
	Diagnostic output

Characteristic parameters

Type	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

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

Number of digital switching outputs	2 Piece(s)

Switching outputs

Switching voltage high, min.	22 V
Switching voltage low, max.	2 V
Switching voltage, type.	23 V
Voltage type	DC
Switching current, max.	100 mA
Switching voltage	high: ≥(U_B-2V)
	low: ≤ 2 V

Switching output 1

Assignment	Connection 1, conductor 2
Switching element	Transistor, PNP
Switching principle	Dark switching
Function	Diagnostic output

Switching output 2

Assignment	Connection 1, conductor 4
Switching element	Transistor, PNP
Switching principle	Light switching
Function	Switching output

Time behavior

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 mm²

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	100 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

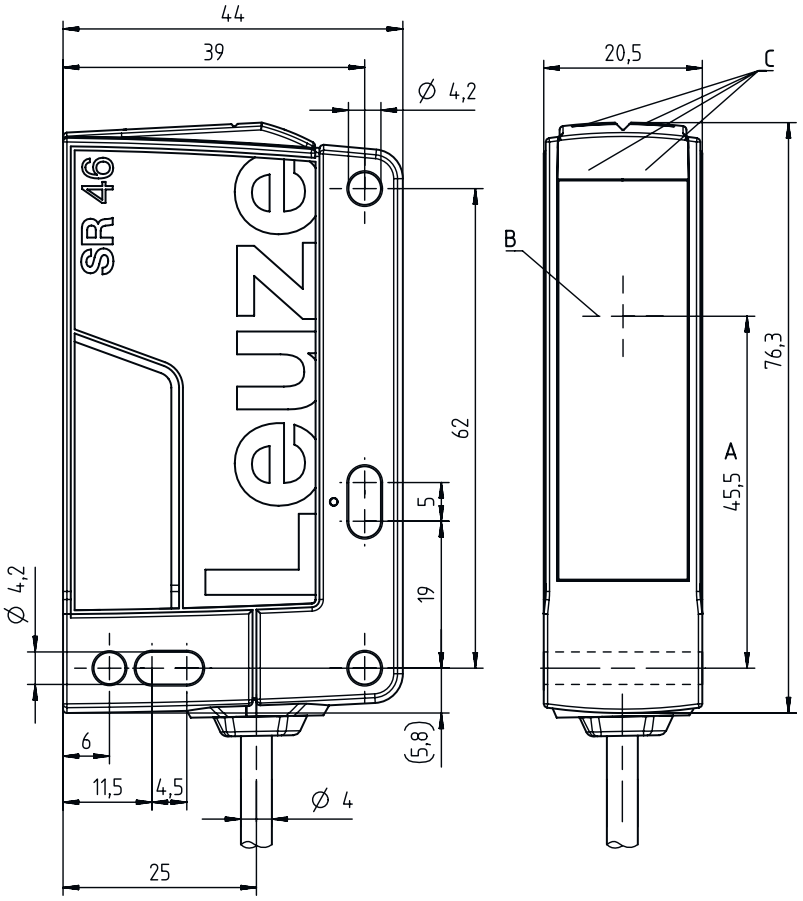
Degree of protection	IP 67
	IP 69K
Protection class	III, Rating voltage 50 V
Approvals	c TÜV NRTL US
	c UL US
Standards applied	IEC 60947-5-2, IEC/EN 61496

Classification

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



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 mm²

Conductor color	Conductor assignment
Brown	+24 V
White	Diagnosis
Blue	GND
Black	OUT

Operation and display

LED	Display	Meaning
1	Green, continuous light	Ready

Operation and display

LED	Display	Meaning
2	Yellow, continuous light	Light path free

Suitable transmitters

	Part no.	Designation	Article	Description
	50126549	SLS46CI-40.K48	Single light beam safety device transmitter	Special version: Activation input Operating range: 0.25 ... 40 m Operating range limit: 0.25 ... 48 m Light source: LED, Infrared Response time: 2.5 ms Connection: Cable, 2,000 mm, PUR

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.
- 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

- 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
	547931	MSI-TRMB-01	Safety relay	
	547932	MSI-TRMB-02	Safety relay	

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	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.