

the sensor people





Part no.: 50126334 SLE46CI-70.K4/4P-M12 Single beam safety device receiver













Figure can vary

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### **Technical data**

Basic data			
Series	46C		
Characteristic parameters			
Туре	4, IEC/EN 61496		
Performance Level (PL)	e, EN ISO 13849-1:2008, In combination with MSI-TRMB-01 or MSI-TRMB-02 safety relay		
MTTFd	900 years, EN ISO 13849-1		
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1		
Category	4, EN ISO 13849:2008, In combination with MSI-TRMB-01 or MSI-TRMB-02 safety relay		
Timing			
Switching frequency	250 Hz		
Response time	2.5 ms		
Readiness delay	300 ms		
Electrical data			
Protective circuit	Short circuit protected, Polarity reversal protection		
Performance data			
Supply voltage	24 V, DC, -20 20 %, Incl. residual ripple		
Residual ripple	10 %, From U <sub>B</sub>		
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, typ.	23 V		
Voltage type	DC		
Switching current, max.	100 mA		
Switching output 1			
Assignment	Connection 1, pin 2		
Switching element	Transistor, PNP		
Switching principle	Dark switching		
Function	Diagnostic output		
Switching output 2			
Assignment	Connection 1, pin 4		
Switching element	Transistor, PNP		
Switching principle	Light switching		
Function	Switching output		
0 "			
Connection Number of connections	1 Pioco(s)		
Number of connections	1 Piece(s)		



Connection 1		
Type of connection	Connector	
Function	Signal OUT, Voltage supply	
Thread size	M12	
Material	Plastic	
No. of pins	4 -pin	
Mechanical data		
Design	Cubic	
Width	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	Yellow	
Type of fastening	Through-hole mounting	
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	
Environmental test	ECOLAB	

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

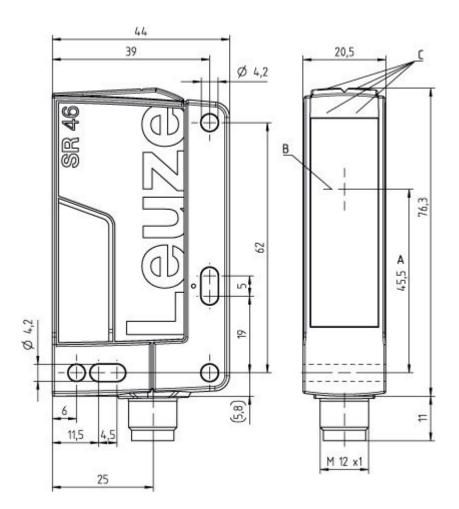
Functions	
Functions	Diagnostic output, Alignment indicator

Classification	
eCl@ss 8.0	27272701
eCl@ss 9.0	27272701
ETIM 5.0	EC001831

### **Dimensioned drawings**

All dimensions in millimeters



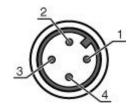


- Optical axis
- A B C Transmitter and receiver
  Green/yellow indicator diodes

#### **Electrical connection**

Connection 1	
Type of connection	Connector
Function	Signal OUT, Voltage supply
Thread size	M12
Туре	Male
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment	Conductor color
1	+24V	Brown
2	Diagnosis	White
3	GND	Blue
4	OUT	Black





### Operation and display

#### **LEDs**

LED	Display	Meaning
1	Green, continuous light	Ready
2	Yellow, continuous light	Light path free

#### **Accessories**

## Connection technology - Connection cables

Part no.	Designation	Article	Description
50104565	K-D M12A-4P-10m- PUR	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
50104546	K-D M12A-4P-10m- PVC	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
50104753	K-D M12A-4P-20m- PVC	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC
50104561	K-D M12A-4P-2m- PUR	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50104542	K-D M12A-4P-2m- PVC	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
50123532	K-D M12A-4P-30m- PVC	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 30,000 mm Sheathing material: PVC
50104563	K-D M12A-4P-5m- PUR	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR



Part no.	Designation	Article	Description
50104544	K-D M12A-4P-5m- PVC	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
50104566	K-D M12W-4P-10m- PUR	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
50104547	K-D M12W-4P-10m- PVC	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
50113473	K-D M12W-4P-20M- PVC	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC
50104562	K-D M12W-4P-2m- PUR	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50104543	K-D M12W-4P-2m- PVC	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
50104564	K-D M12W-4P-5m- PUR	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: PUR
50104545	K-D M12W-4P-5m- PVC	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
(F) 3-	50105315	BT 46	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, 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
50117253	BTU 300M-D10	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
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  Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting  Mounting bracket, at device: Screw type  Type of mounting device: Clampable, Adjustable, Turning, 360°  Material: Metal
50117251	BTU 300M-D14	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 4x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50120425	BTU 300M.5-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x M4 x 20 screw, 2x position washers, 2x M4 mounting nut Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Stainless steel
50119332	BTU 900M-D10	Mounting system	Contains: 2x M4 x 10 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal
50119331	BTU 900M-D12	Mounting system	Contains: 2x position washers, 2x M4 x 10 screw Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal
50119330	BTU 900M-D14	Mounting system	Contains: 2x position washers, 2x M4 x 10 screw Design of mounting device: Mounting system Mounting bracket, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Turning, 360°, Swiveling Material: Metal

#### **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)
- Average life expectancy 100,000 h at an ambient temperature of 25 °C