

the sensor people





Part no.: 50121915 SLE46C-70.K2/4P-M12 Single beam safety device receiver















# Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Accessories
- Notes





### **Technical data**

Basic data				
Series	46C			
Characteristic parameters				
Туре	2, IEC/EN 61496			
Performance Level (PL)	c, EN ISO 13849-1:2008, In combination with MSI-TRMB-01 or MSI-TRMB-02 safety relay			
MTTF <sub>d</sub>	400 years, EN ISO 13849-1			
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1			
Category	2, 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	Polarity reversal protection, Short circuit protected			
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			
Connection				
Number of connections	1 Piece(s)			



Connector		
T, Voltage supply		
Plastic		
Cubic		
76.3 mm x 44 mm		
РВТ		
MA)		
e mounting		
K		
oltage 50 V		
TÜV Süd, c UL US		
5-2, IEC/EN 61496		
ndicator, Diagnostic output		
n		

27272701

27272701

EC001831

### **Dimensioned drawings**

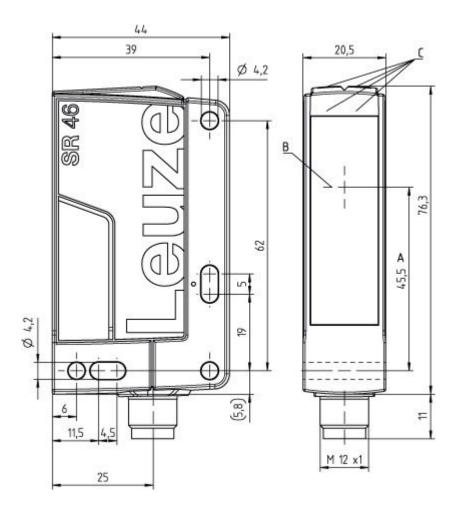
All dimensions in millimeters

eCl@ss 8.0

eCl@ss 9.0

ETIM 5.0



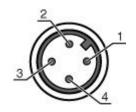


- Optical axis
- A B C Transmitter and receiver
  Green/yellow indicator diodes

#### **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
1	+24V
2	Diagnosis
3	GND
4	OUT





### 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
50122797	BTU 346M-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x 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: Turning, 360°, Clampable, Adjustable Material: Metal
50122798	BTU 346M.5-D12	Mounting system	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: Turning, 360°, Clampable, Adjustable 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.

#### 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