



**Part no.: 50108494**  
**SLSER 25B/66**  
**Single beam safety device receiver**



Figure can vary



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## Technical data

<b>Basic data</b>	
Series	25
Operating principle	Throughbeam principle
Device type	Receiver
<b>Characteristic parameters</b>	
Type	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 a suitable test monitoring unit, e.g. MSI-TR1B
MTTF <sub>d</sub>	425 years, EN ISO 13849-1
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1
Category	2, EN ISO 13849, In combination with a suitable test monitoring unit, e.g. MSI-TR1B
<b>Electrical data</b>	
Protective circuit	Short circuit protected Polarity reversal protection Transient protection
<b>Performance data</b>	
Supply voltage U <sub>B</sub>	10 ... 30 V, DC
Residual ripple	15 %, From U <sub>B</sub>
Open-circuit current	0 ... 15 mA
<b>Outputs</b>	
Number of digital switching outputs	2 Piece(s)
<b>Switching outputs</b>	
Switching voltage high, min.	22 V
Switching voltage low, max.	2 V
Voltage type	DC
Switching voltage	Low: ≤2V High: ≥(U <sub>B</sub> -2V)
<b>Switching output 1</b>	
Switching element	Transistor, Push-pull
Switching principle	Light switching (PNP)/dark switching (NPN)
<b>Switching output 2</b>	
Switching element	Transistor, Push-pull
Switching principle	Dark switching (PNP)/light switching (NPN)
<b>Timing</b>	
Switching frequency	100 Hz
Response time	5 ms
Readiness delay	100 ms
<b>Connection</b>	
Number of connections	1 Piece(s)

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**Connection 1**

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

**Mechanical data**

Design	Cubic
Dimension (W x H x L)	15 mm x 38.9 mm x 28.7 mm
Housing material	Plastic, PC-ABS
Lens cover material	Plastic / PMMA
Net weight	25 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 ... 55 °C
Ambient temperature, storage	-30 ... 60 °C

**Certifications**

Degree of protection	IP 67 IP 66
Protection class	II
Certifications	TÜV Süd c UL US
Standards applied	IEC 60947-5-2

**Classification**

Customs tariff number	85365019
eCl@ss 8.0	27272701
eCl@ss 9.0	27272701
ETIM 5.0	EC001831
ETIM 6.0	EC001831

**Electrical connection**

Connection 1	
Type of connection	Cable
Function	Signal OUT Voltage supply
Cable length	2,000 mm

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Connection 1	
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.21 mm <sup>2</sup>


Conductor color	Conductor assignment
Brown	+10...30 V DC
White	OUT 1
Blue	GND
Black	OUT 2

## Operation and display

### LEDs


LED	Display	Meaning
1	Green, continuous light	Ready
2	Yellow, continuous light	Light path free
	Yellow, flashing	Light path free, no function reserve

## Suitable transmitters


	Part no.	Designation	Article	Description
	50108491	SLSSR 25B.8	Single beam safety device transmitter	Operating principle: Throughbeam principle Operating range: 0 ... 20 m Operating range limit: 0 ... 22 m Light source: LED, Red Response time: 5 ms Connection: Cable, 2,000 mm, PUR Special design: Activation input

## Accessories

### Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	50124651	BT 205M-10SET	Mounting device set	Contains: 10x 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

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	Part no.	Designation	Article	Description
	50040269	BT 25	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
	50117830	BTP 200M-D10	Mounting system	Design of mounting device: Protection hood Fastening, at system: For 10 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50117829	BTP 200M-D12	Mounting system	Design of mounting device: Protection hood Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50117828	BTP 200M-D14	Mounting system	Design of mounting device: Protection hood Fastening, at system: For 14 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50117256	BTU 200M-D10	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Fastening, 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
	50117255	BTU 200M-D12	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers 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: Clampable, Adjustable, Turning, 360° Material: Metal
	50117254	BTU 200M-D14	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Fastening, 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
	50122797	BTU 346M-D12	Mounting system	Contains: 2x M4 x 25 screw, 2x position washers 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°, Clampable, Adjustable Material: Metal

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## Alignment aids

	Part no.	Designation	Article	Description
	50109545	SAT 5	Alignment aid	Housing material: Metal