

Technical data sheet

Single light beam safety device transmitter

Part no.: 50108491

SLSSR 25B.8



For illustration purposes only

Contents

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



Technical data

Basic data

Series	25
Operating principle	Throughbeam principle
Device type	Transmitter

Special version

Special version	Activation input
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Characteristic parameters

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 MSI-TRMB safety relay
MTTF _d	425 years, EN ISO 13849-1
Mission time T _M	20 years, EN ISO 13849-1
Category	2, EN ISO 13849, In combination with a suitable test monitoring unit, e.g. MSI-TR1B

Optical data

Operating range	0 ... 20 m
Operating range limit	0 ... 22 m
Light source	LED, Red
Wavelength	620 nm
Transmitted-signal shape	Pulsed
LED group	1
Opening angle, max.	-5 ... 5 °

Electrical data

Protective circuit	Polarity reversal protection Transient protection
Performance data	
Supply voltage U _B	10 ... 30 V, DC
Residual ripple	15 %, From U _B
Open-circuit current	0 ... 15 mA
Inputs	
Number of activation inputs	1 Piece(s)

Activation inputs

Voltage type	DC
Switching voltage	high: ≥8V low: ≤ 2 V
Switching voltage high, min.	8 V
Switching voltage low, max.	2 V
Activation delay	2 ms
Disable delay	2 ms
Input resistance	10,000 Ω, 10 %

Time behavior

Switching frequency	100 Hz
Response time	5 ms
Readiness delay	100 ms

Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Signal IN 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)	15 mm x 38.9 mm x 28.7 mm
Housing material	Plastic
Plastic housing	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 66 IP 67
Protection class	II
Approvals	c UL US TÜV Süd
Standards applied	IEC 60947-5-2

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
ETIM 5.0	EC001831
ETIM 6.0	EC001831
ETIM 7.0	EC001831
ETIM 8.0	EC001831

Electrical connection

Connection 1

Function	Signal IN
	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

Brown	+10...30 V DC
White	n.c.
Blue	GND
Black	Active

Operation and display

LED	Display	Meaning
1	Green, continuous light	Ready
2	Yellow, continuous light	Transmitter active

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.

Accessories

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
	50117255	BTU 200M-D12	Mounting system	Contains: 2x M3 x 16 screw, 2 M3 x 20 screws, 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, Suited for M3 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.