

Technical data sheet

Single light beam safety device transmitter

Part no.: 50083116

SLSS 318K-S12



For illustration purposes only

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Technical data

Basic data

Series	318
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
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
MTTF _d	414 years, EN ISO 13849-1
Mission time T _M	20 years, EN ISO 13849-1
Category	2, EN ISO 13849, In combination with MSI-TRMB safety relay

Optical data

Operating range	0 ... 10 m
Operating range limit	0 ... 12 m
Light source	LED, Red
Wavelength	660 nm
Transmitted-signal shape	Pulsed
LED group	1
Opening angle, max.	-5 ... 5 °

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected
	Transient protection

Performance data

Supply voltage U _B	10 ... 30 V, DC
Residual ripple	10 %, From U _B
Open-circuit current	0 ... 25 mA

Inputs

Number of activation inputs	1 Piece(s)
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Activation inputs

Voltage type	DC
Switching voltage	high: ≥8V
	low: ≤ 1.5 V
Switching voltage high, min.	8 V
Switching voltage low, max.	1.5 V
Activation/disable delay	1 ms
Input resistance	10,000 Ω, -10 ... 10 %

Activation input 1

Time behavior

Switching frequency	1,000 Hz
Response time	0.5 ms
Readiness delay	30 ms

Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Material	Plastic
No. of pins	4 -pin

Mechanical data

Design	Cylindrical
Dimension (Ø x L)	22 mm x 61.5 mm
Thread size	M18
Housing material	Plastic
Plastic housing	PA 12
Lens cover material	Plastic, PA 12
Net weight	90 g
Housing color	Black
	Red
Type of fastening	Screw type

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

Environmental data

Ambient temperature, operation	-25 ... 65 °C
Ambient temperature, storage	-40 ... 70 °C

Certifications

Degree of protection	IP 67
Protection class	II
Approvals	c UL US
	TÜV Nord
Standards applied	IEC 60947-5-2

Classification

Customs tariff number	85365019
ECLASS 8.0	27272701
ECLASS 9.0	27272701
ETIM 5.0	EC001831
ETIM 6.0	EC001831

Electrical connection

Connection 1

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

Pin	Pin assignment
1	+10...30 V DC
2	n.c.
3	GND
4	Active

Operation and display

LED	Display	Meaning
1	Red, continuous light	Transmitted beam 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

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50130690	KD U-M12-4W-V1-050	Connection cable	Application: Chemical resistant Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	50113548	BT D18M.5	Mounting bracket	Diameter, inner: 18 mm 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: Stainless steel

Accessories

Note	
	A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.