



**Part no.: 50134012**  
**SLS518I-K48-M12**  
**Single beam safety device transmitter**



Figure can vary

## Contents

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## Technical data

<b>Basic data</b>	
Series	518
<b>Special design</b>	
Special design	Activation input
<b>Characteristic parameters</b>	
Type	4 , IEC/EN 61496, in combination with a suitable test monitoring unit, e.g. MSI-TR1B
SIL	3 , IEC 61508, in combination with a suitable test monitoring unit, e.g. MSI-TR1B
SILCL	3 , IEC/EN 62061, in combination with a suitable test monitoring unit, e.g. MSI-TR1B
Performance Level (PL)	e , EN ISO 13849-1
MTTF <sub>d</sub>	1,700 years , EN ISO 13849-1
Mission time T <sub>M</sub>	20 years , EN ISO 13849-1
Category	4 , EN ISO 13849 , In combination with MSI-TRMB safety relay
<b>Optical data</b>	
Operating range	0 ... 8 m
Operating range limit	0 ... 8 m
Light source	LED , Infrared
LED light wavelength	880 nm
Opening angle, max.	-2.5 ... 2.5 °
<b>Electrical data</b>	
Protective circuit	Polarity reversal protection Short circuit protected
<b>Performance data</b>	
Supply voltage U <sub>B</sub>	24 V , DC , -15 ... 15 % , Incl. residual ripple
Open-circuit current	35 mA
<b>Inputs</b>	
Number of activation inputs	1 Piece(s)
<b>Activation inputs</b>	
Voltage type	DC
Switching voltage	high: ≥8V low: ≤1.5V
Switching voltage high, min.	8 V
Switching voltage low, max.	1.5 V
Activation/disable delay	1 ms
Input resistance	10,000 Ω , -30 ... 30 %
<b>Activation input 1</b>	
Assignment	Connection 1, pin 4
Active switching state	High
<b>Timing</b>	
Switching frequency	500 Hz
Response time	1 ms
Readiness delay	300 ms

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### Connection

Number of connections 1 Piece(s)

#### Connection 1

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

### Mechanical data

Design	Cylindrical
Thread size	M18
Dimension (Ø x L)	22 mm x 81 mm
Housing material	Plastic , ABS, UL 94-V0
Lens cover material	Plastic / PMMA
Net weight	30 g
Housing color	Black
Type of fastening	Screw type

### Operation and display

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

### Environmental data

Ambient temperature, operation	-25 ... 55 °C
Ambient temperature, storage	-25 ... 70 °C

### Certifications

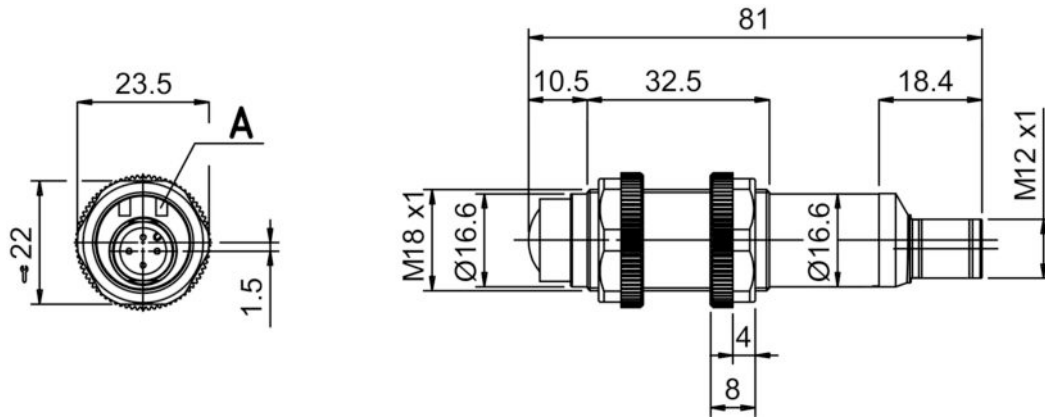
Degree of protection	IP 67
Protection class	
Certifications	TÜV Süd UL US
Standards applied	IEC 60947-5-2, IEC/EN 61496

### Classification

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

## Dimensioned drawings

All dimensions in millimeters

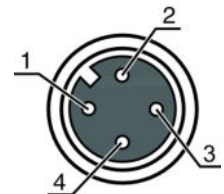


A Green LED

## Electrical connection

Connection 1	
Type of connection	Connector
Function	Activation input Voltage supply
Thread size	M12
Type	Female
Material	Plastic
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment	Conductor color
1	+24V	Brown
2	n.c.	White
3	GND	Blue
4	Active	Black




## Operation and display

### LEDs

LED	Display	Meaning
1	Green, continuous light	Ready

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## Suitable receivers

	Part no.	Designation	Article	Description
	50134013	SLE518I-K4/ 4-M12	Single beam safety device receiver	Response time: 1 ms Connection: Connector, M12, Plastic, 4 -pin Thread size: M18

## 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:

- Only for use in "class 2" circuits

### ATTENTION!

- The SLS518 K4 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.

- Typ. operating range limit: max. attainable range without function reserve
- Operating range: recommended range with function reserve