



# SLG10S-100SAKB1K01

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS

**SICK**  
Sensor Intelligence.



Illustration may differ

### Ordering information

Type	Part no.
SLG10S-100SAKB1K01	1107851

Only in conjunction with FlexChain host

[1091608](https://www.sick.com/1091608) | FC1A-AZ2A1A: Standard I/O

[1091609](https://www.sick.com/1091609) | FC1A-BZ2A1A: Advanced I/O

[1091610](https://www.sick.com/1091610) | FC1A-CZ2A1A: RS-485

[1091611](https://www.sick.com/1091611) | FC1A-DZ2A1A: CANopen

Other models and accessories → [www.sick.com/FlexChain](http://www.sick.com/FlexChain)



### Detailed technical data

#### Features

<b>Device version</b>	FlexChain Guest
<b>Sensor principle</b>	Sender/receiver Light grid system
<b>Minimum detectable object (MDO)</b>	15 mm
<b>Beam separation</b>	10 mm
<b>Optical light exit</b>	Slim
<b>Number of beams</b>	100
<b>Detection height</b>	1,000 mm

#### Mechanics/electronics

<b>Light source</b>	Infrared light
<b>Wave length</b>	850 nm
<b>Supply voltage <math>V_s</math></b>	Via FlexChain (host)
<b>Output load, capacitive</b>	100 nF
<b>Output load, Inductive</b>	1 H
<b>Initialization time</b>	1 s
<b>Dimensions (W x H x D)</b>	24.1 mm x 899.2 mm x 11.8 mm
<b>Connection type</b>	Cable with M8 male connector, 4-pin, Cable with female connector, M8, 4-pin, 1.5 m
<b>Indication</b>	LED
<b>Synchronization</b>	Via FlexChain (host)
<b>Enclosure rating</b>	IP65, IP67 1)
<b>Circuit protection</b>	$U_V$ connections, reverse polarity protected Interference pulse suppression Outputs overcurrent and short-circuit protected

1) Operating in outdoor condition only with a external protection housing.

<b>Protection class</b>	III
<b>Weight</b>	630 g
<b>Front screen</b>	PMMA

<sup>1)</sup> Operating in outdoor condition only with a external protection housing.

### Performance

<b>Maximum range</b>	6 m
<b>Minimum range</b>	≥ 0 m
<b>Operating range</b>	4 m
<b>Scanning time</b>	4.8 ms

### Ambient data

<b>Shock resistance</b>	10 g, 16 ms, DIN EN 60068-2-27
<b>Vibration resistance</b>	10-150 Hz 0.5 mm, IEC 60068-2-6
<b>EMC</b>	EN 61000-6-2, EN 61000-6-4
<b>Ambient light immunity</b>	Direct: 30,000 lx <sup>1)</sup>
<b>Ambient operating temperature</b>	-25 °C ... +55 °C
<b>Ambient temperature, storage</b>	-25 °C ... +70 °C

<sup>1)</sup> Sunlight.

### Classifications

<b>ECLASS 5.0</b>	27270910
<b>ECLASS 5.1.4</b>	27270910
<b>ECLASS 6.0</b>	27270910
<b>ECLASS 6.2</b>	27270910
<b>ECLASS 7.0</b>	27270910
<b>ECLASS 8.0</b>	27270910
<b>ECLASS 8.1</b>	27270910
<b>ECLASS 9.0</b>	27270910
<b>ECLASS 10.0</b>	27270910
<b>ECLASS 11.0</b>	27270910
<b>ECLASS 12.0</b>	27270910
<b>ETIM 5.0</b>	EC002549
<b>ETIM 6.0</b>	EC002549
<b>ETIM 7.0</b>	EC002549
<b>ETIM 8.0</b>	EC002549
<b>UNSPSC 16.0901</b>	39121528

### Dimensional drawing (Dimensions in mm (inch))

SLGxxx-xxxSxxxxxxx



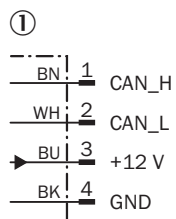
- ① First beam
- ② Last beam
- ③ Beam separation (RM)
- ④ Housing length
- ⑤ Cable with male connector, M8, 4-pin (fixed)
- ⑥ Cable with female connector, M8, 4-pin (0.5 m / 1.5 m)

#### Dimensions in mm (inch)

	Length of stabilizer	Housing length
	<b>A</b>	<b>D</b>
SLGxxx- <b>0 10</b> xxxxxxx	77 (3.03)	99,2 (3.91)
SLGxxx- <b>02 0</b> xxxxxxx	178 (7.01)	199,2 (7.84)
SLGxxx- <b>03 0</b> xxxxxxx	276 (10.87)	299,2 (11.78)
SLGxxx- <b>04 0</b> xxxxxxx	376 (14.8)	399,2 (15.72)

Dimensions in mm (inch)		
SLGxxx- <b>05 0</b> xxxxxxx	475 (18.7)	499,2 (19.65)
SLGxxx- <b>06 0</b> xxxxxxx	576 (22.68)	599,2 (23.6)
SLGxxx- <b>07 0</b> xxxxxxx	676 (26.61)	699,2 (27.53)
SLGxxx- <b>08 0</b> xxxxxxx	776 (30.55)	799,2 (31.46)
SLGxxx- <b>09 0</b> xxxxxxx	875 (34.45)	899,2 (35.4)
SLGxxx- <b>100</b> xxxxxxx	975 (38.39)	999,2 (39.34)
SLGxxx- <b>120</b> xxxxxxx	1.175 (46.26)	1.199,2 (47.21)
SLGxxx- <b>140</b> xxxxxxx	1.374 (54,09)	1.399,2 (55.09)
	Distance: Housing edge - last beam	
	<b>B<sup>1)</sup></b>	
SLG <b>10</b> x-xxxxxxxxx	4,6 (0.18)	
SLG <b>25</b> x-xxxxxxxxx	19,6 (0.77)	
SLG <b>50</b> x-xxxxxxxxx	44,6 (1.76)	
<sup>1)</sup>	for detection height less than 700 mm, the dimension deviates up to 1 mm from the dimensions specified here.	
	Length of cable	
	<b>C</b>	
SLGxxx-xxxxx <b>A</b> xxxx	500 (19.69)	
SLGxxx-xxxxx <b>B</b> xxxx	1.500 (59.06)	

Connection type and diagram



- ① Male connector M8, 4-pin
- ② Cable with female connector, M8, 4-pin

### Functional principle

Slim & Flat



- ① Slim model = light emission on narrow side
- ② Flat model = light emission on broad side

### Recommended accessories

Other models and accessories → [www.sick.com/FlexChain](http://www.sick.com/FlexChain)

	Brief description	Type	Part no.
Mounting brackets and plates			
	Side mounting for switching automation light grids, SLG-2	BEF-NUT-SLG2	2111624
	4 pieces, Mounting bracket for switching automation light grids, SLG-2	BEF-SLG2-SET1	2111623

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For us, that is “Sensor Intelligence.”

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