



# SLG50S-100FBKB1K01

FlexChain

AUTOMATION LIGHT GRIDS

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	part no.
SLG50S-100FBKB1K01	1108061

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>	55 mm
<b>Beam separation</b>	50 mm
<b>Optical light exit</b>	Flat
<b>Number of beams</b>	20
<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>	11.8 mm x 999.2 mm x 24.1 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 <sup>1)</sup>
<b>Circuit protection</b>	U <sub>V</sub> connections, reverse polarity protected Interference pulse suppression Outputs overcurrent and short-circuit protected

<sup>1)</sup> 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>	9.1 m
<b>Minimum range</b>	≥ 0 m
<b>Operating range</b>	6.5 m
<b>Scanning time</b>	1.8 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>	Indirect: 50,000 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.

### Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China-RoHS</b>	✓
<b>cULus certificate</b>	✓
<b>Photobiological safety (IEC EN 62471)</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

### 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 SLGxxx-xxxFxxxxxxx



Dimensions in mm (inch)

- 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)

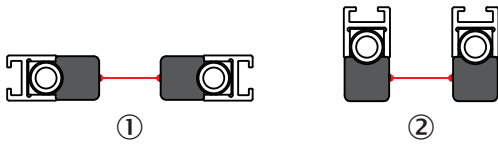
Dimensions in mm (inch)		
-	Length of stabilizer	Housing length
	<b>A</b>	<b>D</b>
SLGxxx- <b>010</b> xxxxxxx	77 (3.03)	99,2 (3.91)
SLGxxx- <b>020</b> xxxxxxx	178 (7.01)	199,2 (7.84)
SLGxxx- <b>030</b> xxxxxxx	276 (10.87)	299,2 (11.78)
SLGxxx- <b>040</b> xxxxxxx	376 (14.8)	399,2 (15.72)
SLGxxx- <b>050</b> xxxxxxx	475 (18.7)	499,2 (19.65)
SLGxxx- <b>060</b> xxxxxxx	576 (22.68)	599,2 (23.6)
SLGxxx- <b>070</b> xxxxxxx	676 (26.61)	699,2 (27.53)
SLGxxx- <b>080</b> xxxxxxx	776 (30.55)	799,2 (31.46)
SLGxxx- <b>090</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-xxxxxxx	4,6 (0.18)	
SLG <b>25</b> x-xxxxxxx	19,6 (0.77)	
SLG <b>50</b> x-xxxxxxx	44,6 (1.76)	
<b>1)</b> 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-xxxxxx <b>A</b> xxxx	500 (19.69)	
SLGxxx-xxxxxx <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

### Instruction for installation 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 systems			
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Mounting bracket for switching automation light grids, SLG-2</li> <li>• <b>Packing unit:</b> 4 pieces</li> </ul>	BEF-SLG2-SET1	2111623
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Side mounting for switching automation light grids, SLG-2</li> <li>• <b>Packing unit:</b> 4 pieces</li> </ul>	BEF-NUT-SLG2	2111624

## SICK AT A GLANCE

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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Contacts and other locations –[www.sick.com](http://www.sick.com)