



SLG50S-140SAKB1K01

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	Part no.
SLG50S-140SAKB1K01	1107887

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



Detailed technical data

Features

Device version	FlexChain Guest
Sensor principle	Sender/receiver Light grid system
Minimum detectable object (MDO)	55 mm
Beam separation	50 mm
Optical light exit	Slim
Number of beams	28
Detection height	1,400 mm

Mechanics/electronics

Light source	Infrared light
Wave length	850 nm
Supply voltage V_s	Via FlexChain (host)
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	1 s
Dimensions (W x H x D)	24.1 mm x 1,399.2 mm x 11.8 mm
Connection type	Cable with M8 male connector, 4-pin, Cable with female connector, M8, 4-pin, 1.5 m
Indication	LED
Synchronization	Via FlexChain (host)
Enclosure rating	IP65, IP67 1)
Circuit protection	U_V connections, reverse polarity protected

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

	Interference pulse suppression Outputs overcurrent and short-circuit protected
Protection class	III
Weight	842 g
Front screen	PMMA

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

Performance

Maximum range	6 m
Minimum range	≥ 0 m
Operating range	4 m
Scanning time	1.5 ms

Ambient data

Shock resistance	10 g, 16 ms, DIN EN 60068-2-27
Vibration resistance	10-150 Hz 0.5 mm, IEC 60068-2-6
EMC	EN 61000-6-2, EN 61000-6-4
Ambient light immunity	Indirect: 50,000 lx ¹⁾
Ambient operating temperature	-25 °C ... +55 °C
Ambient temperature, storage	-25 °C ... +70 °C

¹⁾ Sunlight.

Classifications

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

Dimensional drawing (Dimensions in mm (inch))

SLGxxx-xxxSxxxxxxx



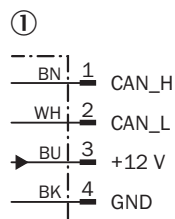
- ① First beam
- ② Last beam
- ③ Beam separation (RM)
- ④ Housing length
- ⑤ Cable with male connector, M8, 4-pin (fixed)
- ⑥ Cable with female connector, M8, 4-pin (0.5 m / 1.5 m)

Dimensions in mm (inch)

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

Dimensions in mm (inch)		
SLGxxx- 05 0 xxxxxxx	475 (18.7)	499,2 (19.65)
SLGxxx- 06 0 xxxxxxx	576 (22.68)	599,2 (23.6)
SLGxxx- 07 0 xxxxxxx	676 (26.61)	699,2 (27.53)
SLGxxx- 08 0 xxxxxxx	776 (30.55)	799,2 (31.46)
SLGxxx- 09 0 xxxxxxx	875 (34.45)	899,2 (35.4)
SLGxxx- 100 xxxxxxx	975 (38.39)	999,2 (39.34)
SLGxxx- 120 xxxxxxx	1.175 (46.26)	1.199,2 (47.21)
SLGxxx- 140 xxxxxxx	1.374 (54,09)	1.399,2 (55.09)
	Distance: Housing edge - last beam	
	B¹⁾	
SLG 10 x-xxxxxxxxx	4,6 (0.18)	
SLG 25 x-xxxxxxxxx	19,6 (0.77)	
SLG 50 x-xxxxxxxxx	44,6 (1.76)	
¹⁾	for detection height less than 700 mm, the dimension deviates up to 1 mm from the dimensions specified here.	
	Length of cable	
	C	
SLGxxx-xxxxx A xxxx	500 (19.69)	
SLGxxx-xxxxx 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

	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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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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