

SLG50S-140FAKB1K01

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS





Illustration may differ

Ordering information

Туре	Part no.
SLG50S-140FAKB1K01	1107977

Only in conjunction with FlexChain host

1091608 | FC1A-AZ2A1A: Standard I/O

1091609 | FC1A-BZ2A1A: Advanced I/O $\,$

1091610 | FC1A-CZ2A1A: RS-485

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	Flat
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	1s
Dimensions (W x H x D)	11.8 mm x 1,399.2 mm x 24.1 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	$\rm U_V$ connections, reverse polarity protected Interference pulse suppression Outputs overcurrent and short-circuit protected

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

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	Direct: 30,000 lx ¹⁾
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-25 °C +70 °C

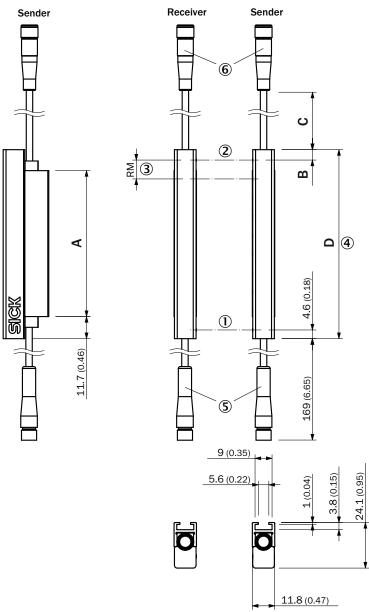
¹⁾ Sunlight.

Classifications

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 ECLASS 12.0 ECO02549	ECLASS 5.0	27270910
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ETIM 8.0 EC002549	ETIM 8.0	EC002549
UNSPSC 16.0901 39121528	UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))

SLGxxx-xxxFxxxxxxx

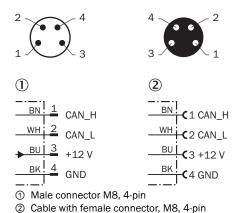


- ① First beam
- ② Last beam
- 3 Beam separation (RM)
- 4 Housing length
- (5) Cable with male connector, M8, 4-pin (fixed)
- 6 Cable with female connector, M8, 4-pin (0.5 m / 1.5 m)

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

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

Connection type and diagram

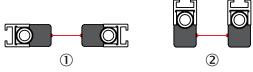


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SWITCHING AUTOMATION LIGHT GRIDS

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	Туре	Part no.
Mounting brackets and plates			
6666	Side mounting for switching automation light grids, SLG-2	BEF-NUT-SLG2	2111624
4444	4 pieces, Mounting bracket for switching automation light grids, SLG-2	BEF-SLG2-SET1	2111623

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