



SLG10S-100FBKA1K01

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

| Type | Part no. |
|--------------------|----------|
| SLG10S-100FBKA1K01 | 1108017 |

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) | 15 mm |
| Beam separation | 10 mm |
| Optical light exit | Flat |
| Number of beams | 100 |
| Detection height | 1,000 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) | 11.8 mm x 999.2 mm x 24.1 mm |
| Connection type | Cable with M8 male connector, 4-pin, Cable with female connector, M8, 4-pin, 0.5 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 | 570 g |
| Front screen | PMMA |

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

Performance

| | |
|------------------------|-------|
| Maximum range | 9.1 m |
| Minimum range | ≥ 0 m |
| Operating range | 6.5 m |
| Scanning time | 8 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-xxxFxxxxxxx

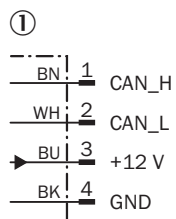


- ① First beam
- ② Last beam
- ③ Beam separation (RM)
- ④ Housing length
- ⑤ Cable with male connector, M8, 4-pin (fixed)
- ⑥ Cable with female connector, M8, 4-pin (0.5 m / 1.5 m)

| Dimensions in mm (inch) | | |
|---------------------------|----------------------|----------------|
| | Length of stabilizer | Housing length |
| | A | D |
| SLGxxx- 01 xxxxxxx | 77 (3.03) | 99,2 (3.91) |
| SLGxxx- 02 xxxxxxx | 178 (7.01) | 199,2 (7.84) |
| SLGxxx- 03 xxxxxxx | 276 (10.87) | 299,2 (11.78) |
| SLGxxx- 04 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

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

| | Brief description | Type | Part no. |
|---|---|---------------|----------|
| Mounting brackets and plates | | | |
|  | <ul style="list-style-type: none"> • Description: Side mounting for switching automation light grids, SLG-2 • Packing unit: 4 pieces | BEF-NUT-SLG2 | 2111624 |
|  | <ul style="list-style-type: none"> • Description: Mounting bracket for switching automation light grids, SLG-2 • Packing unit: 4 pieces | 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.

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