

FLG2-20012011

FLG

AUTOMATION LIGHT GRIDS



Ordering information

| Туре | part no. |
|---------------|----------|
| FLG2-20012011 | 6049334 |

Other models and accessories → www.sick.com/FLG

Illustration may differ



Detailed technical data

Features

| Device version | Close |
|---------------------------------|---|
| Sensor principle | Sender/receiver |
| Minimum detectable object (MDO) | 2 mm, dynamic: 2 mm ¹⁾ 6 mm, static: 6 mm |
| Beam separation | 2 mm |
| Detection height | 120 mm |
| Output function | Light/dark switching adjustable by means of rotary switch |

^{1) 2} mm MDO in limited detection area.

Mechanics/electronics

| Wave length | 880 nm |
|----------------------------------|----------------------------|
| Supply voltage $V_{\rm s}$ | DC 18 V 30 V ¹⁾ |
| Ripple | < 10 % |
| Output current I _{max.} | ≤ 100 mA |
| Off delay | 0 s 5 s ²⁾ |
| Initialization time | 0.3 s |
| Switching output | PNP, NPN ³⁾ |
| Dimensions (W x H x D) | 182 mm x 230 mm x 25 mm |
| Connection type | Male connector M12, 4-pin |
| Housing material | Aluminum, painted |
| Indication | LED |

 $^{^{1)}}$ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

²⁾ Adjustable.

³⁾ Q / Q̄.

| Enclosure rating | IP65 |
|---------------------|--|
| Circuit protection | U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression |
| Protection class | III |
| Weight | 1.12 kg |
| Switching frequency | 5,000 Hz |

¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

Performance

| Detection area (W x H) | 120 mm x 200 mm ¹⁾ |
|------------------------|-------------------------------|
| Response time | < 0.1 ms |

^{1) 2} mm MD0 in limited detection area.

Ambient data

| Shock resistance | EN 60068-2-27 |
|-------------------------------|---------------------------|
| Vibration resistance | EN 60068-2-6 |
| EMC | EN 60947-5-2 |
| Ambient light immunity | Sunlight: 10,000 lx |
| Ambient operating temperature | 0 °C +60 °C ¹⁾ |
| Ambient temperature, storage | -20 °C +80 °C |

¹⁾ In static mode: constant temperature around teaching point will be assumed.

Certificates

| EU declaration of conformity | ✓ |
|------------------------------------|---|
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | 1 |
| China RoHS | ✓ |

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 |

²⁾ Adjustable.

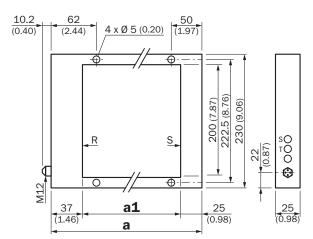
³⁾ Q / Q̄.

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| ETIM 5.0 | EC002549 |
|----------------|----------|
| ETIM 6.0 | EC002549 |
| ETIM 7.0 | EC002549 |
| ETIM 8.0 | EC002549 |
| UNSPSC 16.0901 | 39121528 |

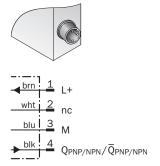
Dimensional drawing FLGx-200xxx1x



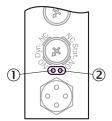
Dimensions in mm (inch)

a a1 FLGx-200120xx 182 (7.17) 120 (4.72) FLGx-200180xx 242 (9.53) 180 (7.09) FLGx-200250xx 312 (12.28) 250 (9.84)

Connection type and diagram

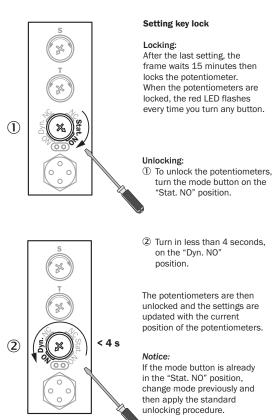


Display LED

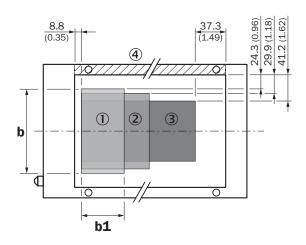


- ① Yellow LED: status output
- ② Red LED: error or button lock active (blinking)

Setting the key lock



Limited detection area



Dimensions in mm (inch)

| | b | b1 |
|-----------------|--------------|--------------|
| ① FLG2-xxx120xx | 151.4 (5.96) | 73.9 (2.91) |
| ② FLG2-xxx180xx | 140.2 (5.52) | 133.9 (5.27) |
| ③ FLG2-xxx250xx | 117.6 (4.63) | 203.9 (8.03) |
| | | |

All dimensions in mm (inch)

4 Side is missing in open version

AUTOMATION LIGHT GRIDS

Recommended accessories

Other models and accessories → www.sick.com/FLG

| | Brief description | Туре | part no. |
|---------------|--|--------------------|----------|
| connectors ar | nd cables | | |
| | Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones | YF2A14-050VB3XLEAX | 2096235 |

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