



DATA SHEET

FLG2-20012011

FLG
Automation light grids

SICK

Sensor Intelligence

AUTOMATION LIGHT GRIDS

FLG2-20012011

ORDERING INFORMATION

Type	part no.
FLG2-20012011	6049334

Further device versions and accessories at 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_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 ³⁾ NPN
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
Display	LED

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

²⁾ Adjustable.

³⁾ Q / Q̇.

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.

²⁾ Adjustable.

³⁾ Q / Q̇.

PERFORMANCE

Detection field (W x H)	120 mm x 200 mm ¹⁾
Response time	< 0.1 ms

¹⁾ 2 mm MDO in limited detection area.

AMBIENT DATA

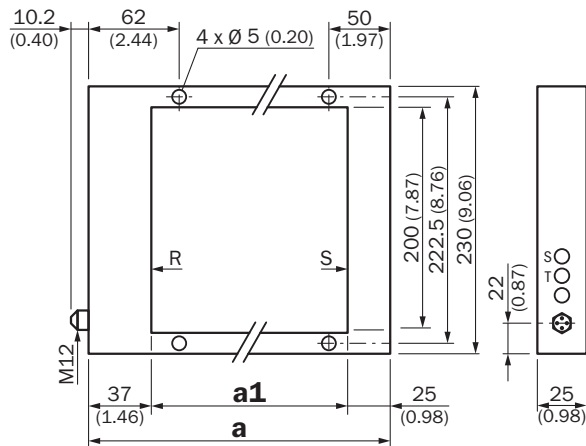
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
EMC	EN 60947-5-2
Ambient light immunity	Sunlight: 10,000 lx
Ambient operating temperature	0 °C ... +60 °C ¹⁾
Ambient temperature, storage	-20 °C ... +80 °C

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	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓

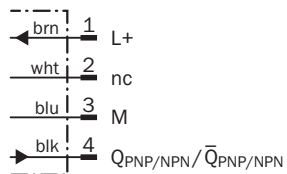
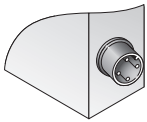
DIMENSIONAL DRAWING FLGX-200XXX1X



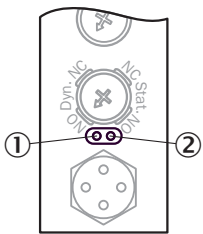
Dimensions in mm (inch)

	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

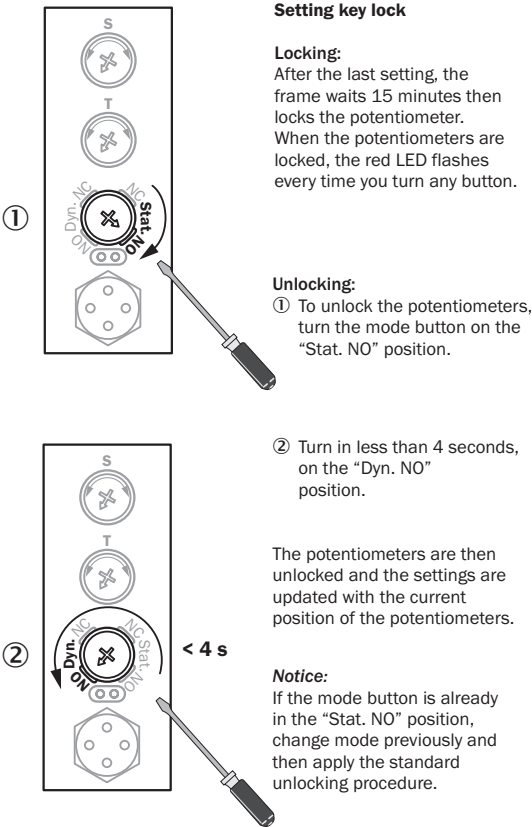


DISPLAY LED

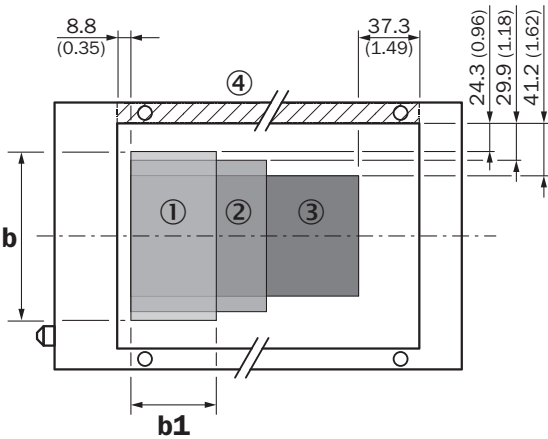


- ① Yellow LED: status output
- ② Red LED: error or button lock active (blinking)

SETTING THE KEY LOCK



LIMITED DETECTION AREA



All dimensions in mm (inch)

④ Side is missing in open version

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)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6049334



SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

SICK
Sensor Intelligence