

FLG2-20012021

FLG

SWITCHING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
FLG2-20012021	6050064

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

Illustration may differ



Detailed technical data

Features

Device version	Open
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

 $^{^{1)}\,\}mathrm{2}\;\mathrm{mm}\;\mathrm{MDO}$ 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
Enclosure rating	IP65
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected

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

²⁾ Adjustable.

³⁾ Q / Q̄.

	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

 $^{^{1)}\,\}mbox{ln}$ static mode: constant temperature around teaching point will be assumed.

Classifications

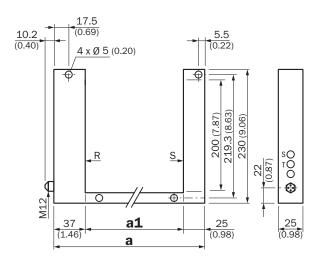
ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC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

²⁾ Adjustable.

³⁾ Q / Q̄.

Dimensional drawing (Dimensions in mm (inch))

FLGx-200xxx2x



	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

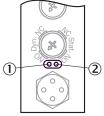
Connection type and diagram





Adjustments

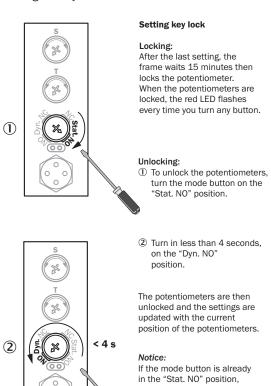
Display LED



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

Concept of operation

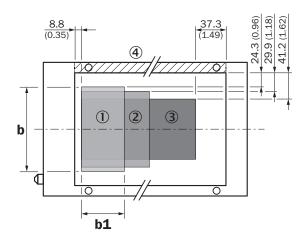
Setting the key lock



change mode previously and then apply the standard unlocking procedure.

Diagramm

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

Recommended accessories

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

	Brief description	Туре	Part no.
Others			
	 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 	YF2A14- 050VB3XLEAX	2096235

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