

XLG3-1020F812 XLG

MEASURING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
XLG3-1020F812	1046353

Illustration may differ

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



Detailed technical data

Features

Minimum detectable object (MDO)	Parallel beam, 35 mm ¹⁾
Beam separation	30 mm
Number of beams	35
Detection height	1,020 mm
Configuration	Parameterization interface (measuring)

¹⁾ MDO min. detectable object.

Mechanics/electronics

Light source	Infrared light
Wave length	880 nm
Supply voltage V _s	DC 18 V 30 V ¹⁾
Power consumption sender	210 mA ²⁾
Power consumption receiver	205 mA ²⁾
Ripple	< 5 V _{pp}
Output current I _{max.}	\leq 100 mA $^{3)}$
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	1s
Switching output	3 x PNP
Inputs	1 x PNP
Dimensions (W x H x D)	34 mm x 1,114 mm x 29 mm
Connection type	Male connector M12, 8-pin
Housing material	Aluminum
Indication	7-segment display, 7-segment display
Synchronization	Cable
Enclosure rating	IP65 4)

 $^{^{1)}}$ Without load.

²⁾ Without load with 24 V.

³⁾ Typical value.

 $^{^{\}rm 4)}$ Operating in outdoor condition only with a external protection housing.

Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	2.846 kg
Front screen	PMMA

¹⁾ Without load.

Performance

Maximum range	7 m ¹⁾
Minimum range	Parallel beam: ≥ 0 mm
Operating range	5 m
Response time	Parallel beam, 6.25 ms ²⁾

¹⁾ No reserve for environmental issue and deterioration of the diode.

Ambient data

Shock resistance	10 g / IEC 68-2-29 / 16 ms
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
EMC	EN 60947-5-2
Ambient light immunity	Direct: 150,000 lx ¹⁾ Indirect: 200,000 lx ²⁾
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °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

 $^{^{2)}}$ Without load with 24 V.

³⁾ Typical value.

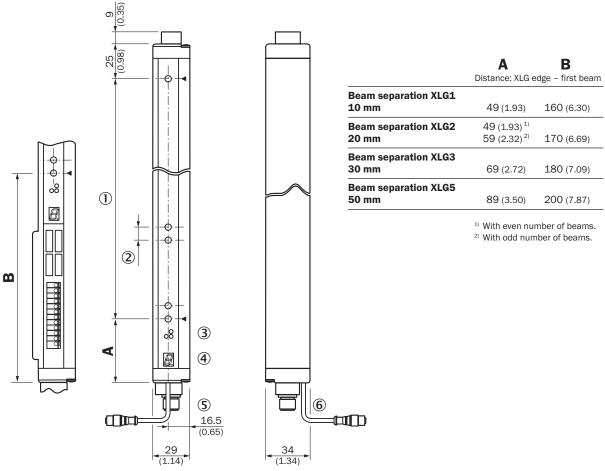
 $^{^{\}rm 4)}$ Operating in outdoor condition only with a external protection housing.

²⁾ With resistive load.

 $^{^{2)}}$ 200,000 lux up to a sensing range of 5 m and at a sensing range of 12 m 25,000 lux directly.

ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

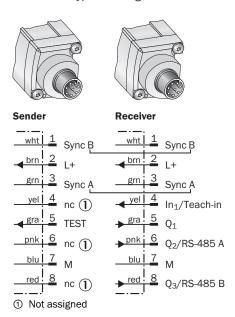
Dimensional drawing (Dimensions in mm (inch))



- ① Detection height (see optical performance)
- ② Beam spacing (30, 50 mm)
- 3 Status indicator: green, yellow, red LEDs
- 4 Indicator panel, 7-segment display
- ⑤ Terminals: M16 cable entry/connector M12, 12-pin
- 6 Configuration connector M8, 4-pin

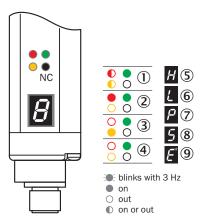
Connection type and diagram

Connection type and diagram



Adjustments

Setting options, receiver



- ① Supply voltage
- ② Device error
- 3 No object in the light path
- 4 Contamination control
- ⑤ Blocked Beams Hold (BBH)
- Activated teach-in procedure
- ⑦ ParamMode is active
- Standby
- Error: E1 = sync. error; E2 = less receiver signal; E9 = defect

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Side mounting with T-nuts, 4 pieces, mounting hardware included	BEF-NUT-MLG	2023696
15.60	Metal mounting bracket, compact, steel, zinc coated, Set, consisting of 4 pieces, without mounting hardware	BEF-WK-XLG	2029100
Terminal and	alignment brackets		
	4 pieces, Mounting kit 1, rotatable, swivel mount, plastic	BEF-2SMKEAKU4	2019649
Others			
	 Connection type head A: Female connector, M8, 4-pin, straight Connection type head B: Female connector, D-Sub, 9-pin, straight Signal type: Sensor/actuator cable Cable: 2 m Description: Sensor/actuator cable, unshielded Note: Rectangular plug-in system, parameterization cable 	YF8U14- 020VA3FDSA9	2023695
	 Connection type head A: Female connector, M12, 8-pin, A-coded Connection type head B: Female connector, M12, 8-pin, A-coded Connection type head C: Male connector, M12, 8-pin, A-coded Note: Male connector M12, 8-pin, straight, to 1 x female connector M12, 8-pin, straight and 1 x female connector M12, 8-pin, straight 	SB0-02F12-SM	6029306
Ro Ro	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation 	YF2A28- 020UA6M2A28	2096105
No.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals 	YF2A28- 020VA6XLEAX	2096243
1	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation 	YF2A28- 050UA6M2A28	2096106
No.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals 	YF2A28- 050VA6XLEAX	2096244
Ro Bo	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation 	YF2A28- 100UA6M2A28	2096109

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	Brief description	Туре	Part no.
No.	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals 	YF2A28- 100VA6XLEAX	2096245
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals 	YG2A28- 020VA6XLEAX	2096218
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals 	YG2A28- 050VA6XLEAX	2096219

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