

XLG2-1180I212 XLG

**MEASURING AUTOMATION LIGHT GRIDS** 





## Ordering information

Туре	Part no.
XLG2-1180I212	1048203

Illustration may differ

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



#### Detailed technical data

#### **Features**

Minimum detectable object (MDO)	Parallel beam, 25 mm <sup>1)</sup>
Beam separation	20 mm
Number of beams	60
Detection height	1,180 mm
Configuration	Parameterization interface (measuring)

 $<sup>^{1)}\,\</sup>mathrm{MDO}$  min. detectable object.

### Mechanics/electronics

Light source	Infrared light
Wave length	880 nm
Supply voltage V <sub>s</sub>	DC 18 V 30 V <sup>1)</sup>
Power consumption sender	260 mA <sup>2)</sup>
Power consumption receiver	280 mA <sup>2)</sup>
Ripple	< 5 V <sub>pp</sub>
Output current I <sub>max.</sub>	$\leq$ 100 mA $^{3)}$
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	1s
Switching output	4 x PNP
Inputs	2 x PNP
Dimensions (W x H x D)	34 mm x 1,375 mm x 29 mm
Connection type	Terminals
Housing material	Aluminum
Indication	7-segment display, 7-segment display
Synchronization	Cable
Enclosure rating	IP65 4)

 $<sup>^{1)}</sup>$  Without load.

<sup>&</sup>lt;sup>2)</sup> Without load with 24 V.

<sup>3)</sup> Typical value.

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

Circuit protection	U <sub>V</sub> connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	3.214 kg
Front screen	PMMA

<sup>1)</sup> Without load.

#### Performance

Maximum range	7 m <sup>1)</sup>
Minimum range	Parallel beam: ≥ 0 mm
Operating range	5 m
Response time	Parallel beam, 10 ms <sup>2)</sup>

<sup>1)</sup> No reserve for environmental issue and deterioration of the diode.

#### Communication interface

Inputs/outputs	RS-485
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## 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 <sup>1)</sup> Indirect: 200,000 lx <sup>2)</sup>
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C

<sup>1)</sup> 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

<sup>&</sup>lt;sup>2)</sup> Without load with 24 V.

<sup>3)</sup> Typical value.

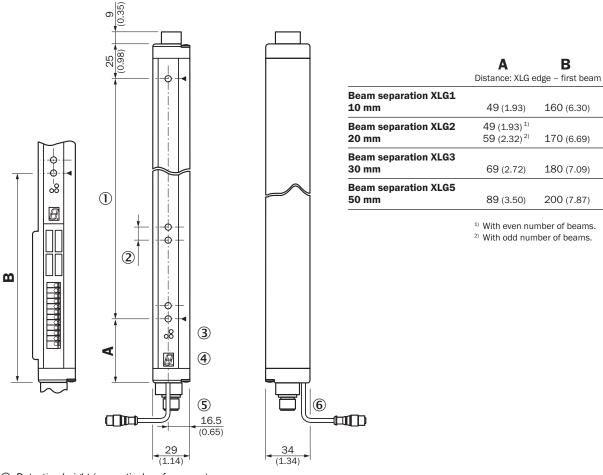
 $<sup>^{</sup>m 4)}$  Operating in outdoor condition only with a external protection housing.

<sup>2)</sup> With resistive load.

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

ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

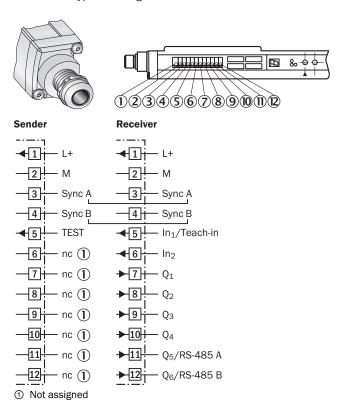
#### Dimensional drawing (Dimensions in mm (inch))



- 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

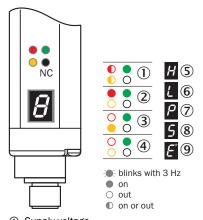
#### Connection type and diagram

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	
	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				
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, straight</li> <li>Connection type head B: Female connector, D-Sub, 9-pin, straight</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Note: Rectangular plug-in system, parameterization cable</li> </ul>	YF8U14- 020VA3FDSA9	2023695	
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, A-coded</li> <li>Connection type head B: Female connector, M12, 8-pin, A-coded</li> <li>Connection type head C: Male connector, M12, 8-pin, A-coded</li> <li>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</li> </ul>	SB0-02F12-SM	6029306	
10	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation</li> </ul>	YF2A28- 020UA6M2A28	2096105	
No.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 020VA6XLEAX	2096243	
10	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation</li> </ul>	YF2A28- 050UA6M2A28	2096106	
W.O	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 050VA6XLEAX	2096244	

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	Brief description	Туре	Part no.
k. k.	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
W.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	YF2A28- 100VA6XLEAX	2096245
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PVC</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with chemicals</li> </ul>	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

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

## **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

