

# MLG1-2240A812 MLG

**MEASURING AUTOMATION LIGHT GRIDS** 



## MLG1-2240A812 | MLG

MEASURING AUTOMATION LIGHT GRIDS



## Ordering information

Туре	Part no.
MLG1-2240A812	1055177

Other models and accessories -> www.sick.de/MLG



## Detailed technical data

Features		
Technology	Sender/receiver	
Minimum detectable object (MDO)	Parallel beam, 15 mm	
Beam separation	10 mm	
Number of beams	≥ 225	
Detection height	2,240 mm	
Configuration	Parameterization interface (measuring)	
Performance		
Maximum range	7 m <sup>1)</sup>	
Minimum range	Parallel beam: ≥ 0 mm	
Working range	5 m	
Response time	Parallel beam $\geq$ 34.75 ms <sup>2</sup> )	

 $^{\mbox{\sc 1})}$  No reserve for environmental issue and deterioration of the diode.

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

#### Interfaces

Switching output	2 x Analog 1 x PNP
Inputs	1 x PNP
Connection type	Male connector M12, 8-pin

### Mechanics/electronics

Wave length	Infrared light, 880 nm
Supply voltage V <sub>s</sub>	DC 18 V 30 V <sup>1)</sup>
Power consumption sender	≥ 590 mA <sup>2)</sup>
Power consumption receiver	$\geq$ 775 mA <sup>2</sup> )
Ripple	< 5 V <sub>pp</sub>
Output current I <sub>max.</sub>	$\leq$ 100 mA <sup>3)</sup>
Output load capacitive	100 nF
Output load inductive	1H
Initialization time	1s

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

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

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

## MLG1-2240A812 | MLG

MEASURING AUTOMATION LIGHT GRIDS

Dimensions (W x H x D)	34 mm x 2,314 mm x 29 mm
Housing material	Aluminum
Indication	7-segment display, 7-segment display
Synchronization	Cable
Enclosure rating	IP 65
Circuit protection	$U_{\rm V}$ connections, reverse polarity protected, Output Q short-circuit protected, Interference pulse suppression
Weight	≥ 5.652 kg
Front screen	РММА

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

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

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

#### Ambient data

Protection class	III
EMC	EN 60947-5-2
Ambient temperature	Operation: -25 °C +55 °C Storage: -40 °C +70 °C
Ambient light immunity	Direct: 12,500 lx $^{1)}$ Indirect: 50,000 lx $^{1)}$
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
Shock load	10 g / IEC 68-2-29 / 16 ms

<sup>1)</sup> Sunlight.

## MLG1-2240A812 | MLG MEASURING AUTOMATION LIGHT GRIDS

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



	A B Distance: MLG edge – first beam	
Beam separation MLG1 10 mm	49 (1.93)	160 (6.30)
Beam separation MLG2 20 mm	49 (1.93) <sup>1)</sup> 59 (2.32) <sup>2)</sup>	170 (6.69)
Beam separation MLG3 30 mm	69 (2.72)	180 (7.09)
Beam separation MLG5 50 mm	89 (3.50)	200 (7.87)

<sup>1)</sup> With even number of beams.

<sup>2)</sup> With odd number of beams.

- 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

### Adjustments

LED indicator



② Device error

- ③ No object in the light path
- 4 Contamination control
- ⑤ Blocked Beams Hold (BBH)
- 6 Activated teach-in procedure
- ⑦ ParamMode is active
- ⑧ Standby
- (9) Error: E1 = sync. error; E2 = less receiver signal; E9 = defect

#### **Recommended accessories**

Other models and accessories -> www.sick.de/MLG

	Brief description	Туре	Part no.	
Mounting brac	Mounting brackets and mounting 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 a	Terminal and alignment brackets			
	4 pieces, Mounting kit 1, rotatable, swivel mount, plastic	BEF-2SMKEAKU4	2019649	
Adapters and distributors				
Ś	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	
Plug connectors and cables				

# MLG1-2240A812 | MLG

MEASURING AUTOMATION LIGHT GRIDS

	Brief description	Туре	Part no.
	Head A: female connector, M12, 8-pin, straight Head B: cable Cable: PVC, shielded, 2 m	DOL-1208-G02MA	6020633
	Head A: female connector, M12, 8-pin, straight Head B: cable Cable: PVC, shielded, 5 m	DOL-1208-G05MA	6020993
	Head A: female connector, M12, 8-pin, straight Head B: cable Cable: PVC, shielded, 10 m	DOL-1208-G10MA	6022152
	Head A: female connector, M12, 8-pin, angled Head B: cable Cable: PVC, shielded, 2 m	DOL-1208-W02MA	6020992
	Head A: female connector, M12, 8-pin, angled Head B: cable Cable: PVC, shielded, 5 m	DOL-1208-W05MA	6021033
	Head A: female connector, M8, 4-pin, straight Head B: female connector, D-Sub, 9-pin, straight Cable: unshielded, 2 m Rectangular plug-in system, parameterization cable	DSL-8D04-G02M	2023695
le te	Head A: female connector, M12, 8-pin, straight Head B: male connector, M12, 8-pin, straight Cable: drag chain use, PUR, halogen-free, shielded, 2 m	DSL-1208-G02MAC	6030121
	Head A: female connector, M12, 8-pin, straight Head B: male connector, M12, 8-pin, straight Cable: drag chain use, PUR, halogen-free, shielded, 5 m	DSL-1208-G05MAC	6032325
	Head A: female connector, M12, 8-pin, straight Head B: male connector, M12, 8-pin, straight Cable: drag chain use, PUR, halogen-free, shielded, 10 m	DSL-1208-G10MAC	6034901

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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.

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Online data sheet

