

MLG5-0100A812

MLG

MEASURING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
MLG5-0100A812	1055181

Other models and accessories → www.sick.de/MLG



Detailed technical data

Features

Technology	Sender/receiver
Minimum detectable object (MDO)	Parallel beam, 55 mm
Beam separation	50 mm
Number of beams	≥ 3
Detection height	100 mm
Configuration	Parameterization interface (measuring)

Performance

Maximum range	7 m ¹⁾
Minimum range	Parallel beam: ≥ 0 mm
Working range	5 m
Response time	Parallel beam ≥ 1.45 ms ²⁾

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

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 _s	DC 18 V 30 V ¹⁾
Power consumption sender	\geq 146 mA $^{2)}$
Power consumption receiver	\geq 109 mA $^{2)}$
Ripple	< 5 V _{pp}
Output current I _{max.}	≤ 100 mA ³⁾
Output load capacitive	100 nF
Output load inductive	1 H
Initialization time	1s

¹⁾ Without load.

²⁾ With resistive load.

²⁾ Without load with 24 V.

³⁾ Typical value.

Dimensions (W x H x D)	34 mm x 214 mm x 29 mm
Housing material	Aluminum
Indication	7-segment display, 7-segment display
Synchronization	Cable
Enclosure rating	IP 65
Circuit protection	$\mbox{U}_{\mbox{\scriptsize V}}$ connections, reverse polarity protected, Output Q short-circuit protected, Interference pulse suppression
Weight	≥ 0.73 kg
Front screen	PMMA

¹⁾ Without load.

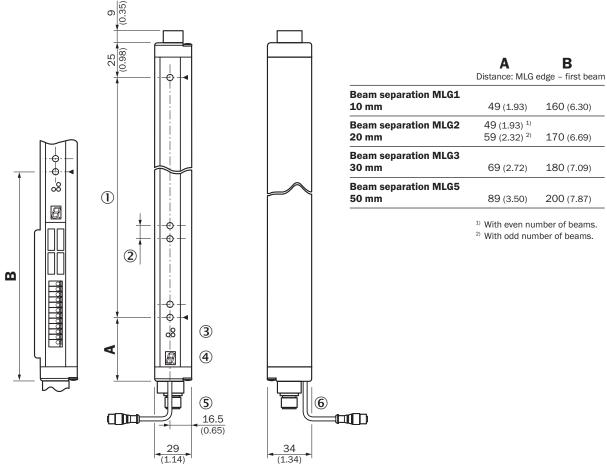
Ambient data

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

¹⁾ Sunlight.

²⁾ Without load with 24 V. ³⁾ Typical value.

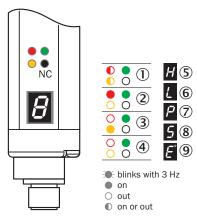
Dimensional drawing (Dimensions in mm (inch))



- ① Detection height (see optical performance)
- ② Beam separation (10, 20, 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
- © Configuration connector M8, 4-pin

Adjustments

LED indicator



- 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
- (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 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 alignment brackets				
	4 pieces, Mounting kit 1, rotatable, swivel mount, plastic	BEF-2SMKEAKU4	2019649	
Adapters and	Adapters and distributors			
	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				

	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
No to	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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