

MLG3-2820F212 MLG

MEASURING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
MLG3-2820F212	1023602

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



Detailed technical data

Features

Technology	Sender/receiver
Minimum detectable object (MDO)	Parallel beam, 35 mm ¹⁾
Beam separation	30 mm
Number of beams	≥ 95
Detection height	2,820 mm
Configuration	Parameterization interface (measuring)

¹⁾ MDO min. detectable object.

Performance

Maximum range	7 m ¹⁾
Minimum range	Parallel beam: ≥ 0 mm
Working range	5 m
Response time	Parallel beam ≥ 15.25 ms ²⁾

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

Interfaces

Switching output	6 x PNP
Inputs	2 x PNP
Connection type	Terminals
Fieldbus, industrial network	-
Type of fieldbus integration	-

Mechanics/electronics

Wave length	Infrared light, 880 nm
Supply voltage V _s	DC 18 V 30 V ¹⁾
Power consumption sender	\geq 330 mA $^{2)}$
Power consumption receiver	\geq 385 mA $^{2)}$
Ripple	< 5 V _{pp}
Output current I _{max.}	\leq 100 mA $^{3)}$

¹⁾ Without load.

²⁾ With resistive load.

²⁾ Without load with 24 V.

³⁾ Typical value.

	100 5	
Output load capacitive	100 nF	
Output load inductive	1 H	
Initialization time	1s	
Dimensions (W x H x D)	34 mm x 3,025 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	≥ 6.986 kg	
Front screen	PMMA	

¹⁾ Without load.

Ambient data

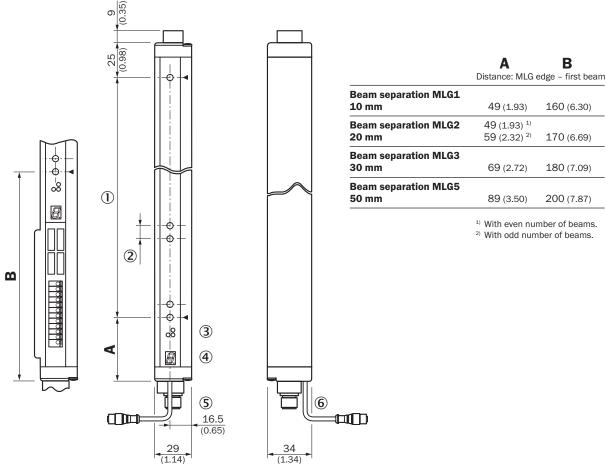
Protection class	III
EMC	EN 60947-5-2
Ambient temperature	Operation: -25 °C +55 °C Storage: -40 °C +70 °C
Ambient light immunity	Direct: 12,500 lx ¹⁾ Indirect: 50,000 lx ¹⁾
Vibration resistance	5 g, 10 Hz 55 Hz (IEC 68-2-6)
Shock load	10 g / IEC 68-2-29 / 16 ms

¹⁾ Sunlight.

²⁾ Without load with 24 V.

³⁾ Typical value.

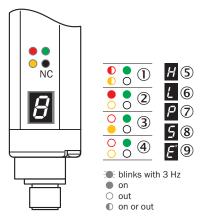
Dimensional drawing (Dimensions in mm (inch))



- 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

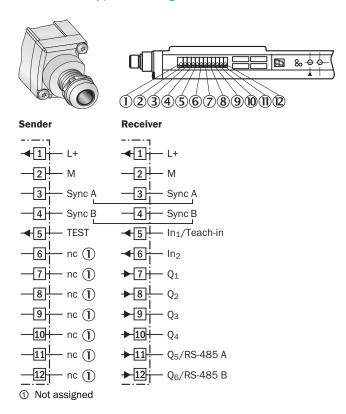
Adjustments

LED indicator



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

Connection type and diagram



Recommended accessories

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

_	s and mounting plates		
Sid.			
77	de mounting with T-nuts, 4 pieces, mounting hardware included	BEF-NUT-MLG	2023696
	etal mounting bracket, compact, steel, zinc coated, Set, consisting of 4 pieces, without bunting hardware	BEF-WK-XLG	2029100
erminal and align	nment brackets		
4 p	pieces, Mounting kit 1, rotatable, swivel mount, plastic	BEF-2SMKEAKU4	2019649
Adapters and distr	ributors		
Charles and the second	ale connector M12, 8-pin, straight, to 1 x female connector M12, 8-pin, straight and female connector M12, 8-pin, straight	SB0-02F12-SM	6029306
Plug connectors a	and cables		
Hea	ad A: female connector, M12, 8-pin, straight ad B: cable ble: PVC, shielded, 2 m	DOL-1208-G02MA	6020633
Hea	ad A: female connector, M12, 8-pin, straight ad B: cable ble: PVC, shielded, 5 m	DOL-1208-G05MA	6020993
Hea	ad A: female connector, M12, 8-pin, straight ad B: cable ble: PVC, shielded, 10 m	DOL-1208-G10MA	6022152
Hea	ad A: female connector, M12, 8-pin, angled ad B: cable ble: PVC, shielded, 2 m	DOL-1208-W02MA	6020992
Hea	ad A: female connector, M12, 8-pin, angled ad B: cable ble: PVC, shielded, 5 m	DOL-1208-W05MA	6021033
Hea Cab	ad A: female connector, M8, 4-pin, straight ad B: female connector, D-Sub, 9-pin, straight ble: unshielded, 2 m ctangular plug-in system, parameterization cable	DSL-8D04-G02M	2023695
Hea	ad A: female connector, M12, 8-pin, straight ad B: male connector, M12, 8-pin, straight ble: drag chain use, PUR, halogen-free, shielded, 2 m	DSL-1208-G02MAC	6030121
Hea	ad A: female connector, M12, 8-pin, straight ad B: male connector, M12, 8-pin, straight ble: drag chain use, PUR, halogen-free, shielded, 5 m	DSL-1208-G05MAC	6032325
Hea	ad A: female connector, M12, 8-pin, straight ad B: male connector, M12, 8-pin, straight ble: drag chain use, PUR, halogen-free, shielded, 10 m	DSL-1208-G10MAC	6034901

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