

MLG2-1480A812

MLG

AUTOMATION LIGHT GRIDS





Ordering information

Туре	part no.
MLG2-1480A812	1080880

Illustration may differ

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

Detailed technical data

Features

Minimum detectable object (MDO)	Parallel beam, 25 mm
Beam separation	20 mm
Number of beams	75
Detection height	1,480 mm
Configuration	Parameterization interface (measuring)

Mechanics/electronics

Light source	Infrared light
Wave length	880 nm
Supply voltage V _s	DC 18 V 30 V
Power consumption sender	290 mA ¹⁾
Power consumption receiver	325 mA ¹⁾
Ripple	< 5 V _{pp}
Output current I _{max.}	\leq 100 mA $^{2)}$
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	1 s
Switching output	2 x Analog, 1 x PNP
Inputs	1 x PNP
Dimensions (W x H x D)	34 mm x 1,564 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 ³⁾
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	3.904 kg

 $^{^{1)}}$, Without load with 24 V.

²⁾ Typical value.

³⁾ Operating in outdoor condition only with a external protection housing.

Front screen PMMA

Performance

Maximum range	7 m ¹⁾
Minimum range	Parallel beam: ≥ 0 mm
Operating range	5 m
Response time	Parallel beam, 12.25 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: 12,500 lx ¹⁾ Indirect: 50,000 lx ¹⁾
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
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

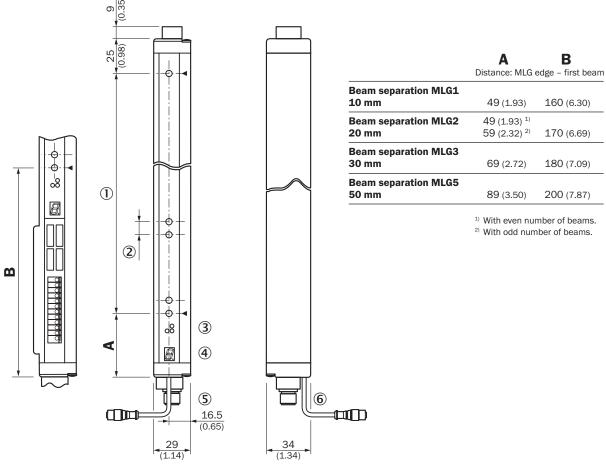
 $^{^{1)}}$, Without load with 24 V.

²⁾ Typical value.

³⁾ Operating in outdoor condition only with a external protection housing.

²⁾ With resistive load.

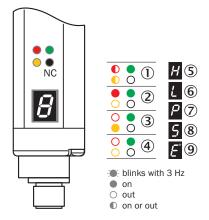
Dimensional drawing



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

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

Recommended accessories

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

	Brief description	Туре	part no.	
Mounting syst	Mounting systems			
	 Description: Side mounting with T-nuts Items supplied: 4 pieces, mounting hardware included 	BEF-NUT-MLG	2023696	
1000	 Description: Metal mounting bracket, compact Material: Steel Details: Steel, zinc coated Items supplied: Set, consisting of 4 pieces, without mounting hardware 	BEF-WK-XLG	2029100	
	 Description: Mounting kit 1, rotatable, swivel mount Material: Plastic Details: Plastic Packing unit: 4 pieces Suitable for: All protective field heights in small housing 	BEF-2SMKEAKU4	2019649	

	Brief description	Туре	part no.
connectors an	nd cables		
	 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 Application: Zones with chemicals, Uncontaminated zones 	YF8U14-020VA3FDSA9	2023695
9.0	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A28-020UA6M2A28	2096105
88	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A28-050UA6M2A28	2096106
88	 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: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A28-100UA6M2A28	2096109
W ₀	 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, Uncontaminated zones 	YF2A28-020VA6XLEAX	2096243
W ₀	 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, Uncontaminated zones 	YF2A28-050VA6XLEAX	2096244
· Co	 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, Uncontaminated zones 	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, Uncontaminated zones 	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, Uncontaminated zones 	YG2A28-050VA6XLEAX	2096219
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28- C50VA6XLEAX	2145694
W ₀	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 8-wire, PVC Description: Sensor/actuator cable, shielded 	YF2A28-030VA6XLEAX	2145695

	Brief description	Туре	part no.
	Application: Zones with chemicals, Uncontaminated zones		
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28- C60VA6XLEAX	2145388
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28-010VA6XLEAX	2145389
	 Connection type head A: Female connector, M12, 8-pin, angled, 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, Uncontaminated zones 	YG2A28-100VA6XLEAX	2145391
	 Connection type head A: Female connector, M12, 8-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones 	YG2A28-030VA6XLEAX	2145390
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: 0.6 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YF2A28- C60VA6XLEAX	2145385
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: 1 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals, Uncontaminated zones	YF2A28-010VA6XLEAX	2145386

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.

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