

MLG1-0140A812







Advanced automation light grids MLG, MLG Analog Output

Model Name > MLG1-0140A812

Part No. > 1056175





At a glance

- · Two analog outputs: voltage to current
- Resolutions of 10 / 20 / 30 / 50 mm and customer-specific resolutions
- · Working range up to 8.5 m
- Detection heights of over 3 m and up to 240 beams possible
- · Short response time of
- Teach algorithm for optimal sensitivity settings in difficult applications, such as measuring translucent objects
- Easy-to-use setup software for customized applications with new features
- Software tools, such as height measurement, zoning, hole detection, and presence control make implementation of complex solutions achievable

Your benefits

- Intelligent evaluation software saves costs by quickly and easily turning a standard sensor into a custom problem solver, reducing the number of sensors, PLCs and programming required
- · Easy-to-see status information helps avoid interrupting operation
- Different beam separation options, detection heights and output configurations ensure a reliable solution
- Integrated analog outputs reduce integration costs for measuring applications, because no additional software is necessary
- Discrete outputs for custom solutions without a PLC
- Tough metal housing stands up to harsh environments and reduces downtime



Features

Technology: Sender/receiver

Task: Measurement light grid Minimum detectable object (MDO): Parallel beam: ≥15 mm

Beam separation: 10 mm Number of beams: 15 Detection height: 140 mm

Configuration: Parameterization interface (measuring)

Performance

Maximum range 7 m

Minimum range: Parallel beam: ≥0 mm Response time Parallel beam: ≥3.25 ms

Working range: 5 m $^{1)}$ No reserve for environmental issue and deterioration of the diode $^{2)}$ With resistive load

Interfaces

Output type: 1 x PNP, 2 x Analog

Inputs: 1 x PNP

Connection type: Connector M12, 8-pin

IO-Link:

Mechanics/electronics

Wave length: IR 880 nm Supply voltage Vs: DC 18 V ... 30 V

Power consumption sender 1): 170 mA
Power consumption receiver 2): 145 mA
Ripple: < 5 Vpp
Output current Imax.: 100 mA
Output load capacitive: 100 nF
Output load inductive: 1 H
Initialization time: 1 s

Dimensions (W x H x D): 34 mm x 214 mm x 29 mm

Housing material: Aluminum

Indication: 7-segment display, LED

Synchronization: Cable Enclosure rating: IP 65

Circuit protection: Output Q short-circuit protected, Interference suppression, VS

connections reverse-polarity protected

Weight: 0.822 kg
Power consumption: 170 mA

Front screen: PMMA

1) 2) 3) Without load with 24 V

Ambient data

Protection class:

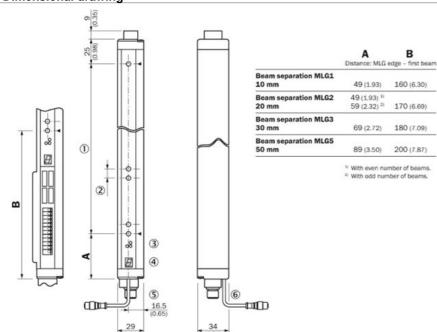
EMC: EN 60947-5-2

Ambient temperature: Operation: -25 ... 55 °C, Storage: -40 ... 70 °C Ambient light safety $\overset{1)}{:}$ 2): Direct: \geq 12,500 lx, Indirect: \geq 50,000 lx Vibration resistance: 5 g, 10 Hz ... 55 Hz (IEC 68-2-6)

Shock load: 10 g/IEC 68-2-29/16 ms

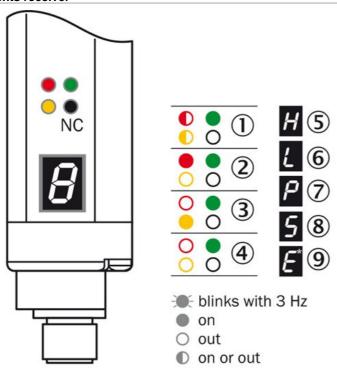
1) 2) Sunlight

Dimensional drawing



- |1| Detection height (see optical performance)
- first beam |2| Beam separation (10, 20, 30, 50 mm)
 - |3| Status indicator: LEDs green, yellow, red
 - |4| Indicator panel, 7-segment display
 - |5| Terminals: M16 cable entry/connector M12, 12-pin
 - |6| Configuration connector M8, 4-pin

Adjustments receiver



- |1| Supply voltage
- |2| Device error
- |3| No object in the light path
- |4| Pollution indication
- |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

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