



Measuring automation light grids MLG, MLG Analog Output

MLG1-1340A812



Model Name > [MLG1-1340A812](#)
Part No. > [1056861](#)



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: | 135 |
| Detection height: | 1,340 mm |
| Configuration: | Parameterization interface (measuring) |

Performance

| | |
|-------------------------------|----------------------------|
| Maximum range ¹⁾ : | 7 m |
| Minimum range: | Parallel beam: ≥ 0 mm |
| Response time ²⁾ : | Parallel beam 21.25 ms |
| Working range: | 5 m |

1) No reserve for environmental issue and deterioration of the diode 2) With resistive load

Interfaces

| | |
|------------------|---------------------------|
| Output type: | 2 x Analog 1 x PNP |
| Inputs: | 1 x PNP |
| Connection type: | Male connector M12, 8-pin |
| IO-Link: | - |

Mechanics/electronics

| | |
|--|---|
| Wave length: | Infrared light 880 nm |
| Supply voltage Vs: | DC 18 V ... 30 V |
| Power consumption sender ¹⁾ : | 410 mA |
| Power consumption receiver ²⁾ : | 505 mA |
| Ripple: | < 5 Vpp |
| Output current I _{max} : | 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 1,414 mm x 29 mm |
| Housing material: | Aluminum |
| Indication: | 7-segment display |
| Enclosure rating: | IP 65 |
| Circuit protection: | Output Q short-circuit protected, Interference suppression, VS connections reverse-polarity protected |
| Weight: | 3.582 kg |
| Front screen: | PMMA |
| Synchronization: | Cable |

1) 2) Without load with 24 V

Ambient data

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

1) 2) Sunlight

Dimensional drawing



| | 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) ¹⁾ | 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) |

¹⁾ With even number of beams.
²⁾ With odd number of beams.

- |1| Detection height (see optical performance)
- |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



- ☉ blinks with 3 Hz
- on
- out
- ◐ on or out

- |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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