



Measuring automation light grids MLG, MLG Analog Output

MLG1-1640A812



Model Name > [MLG1-1640A812](#)
Part No. > [1057121](#)



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:	165
Detection height:	1,640 mm
Configuration:	Parameterization interface (measuring)

Performance

Maximum range ¹⁾ :	7 m
Minimum range:	Parallel beam: ≥ 0 mm
Response time ²⁾ :	Parallel beam 25.75 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⁾ :	470 mA
Power consumption receiver ²⁾ :	595 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 1,714 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:	4.272 kg
Front screen:	PMMA
Synchronization:	Cable

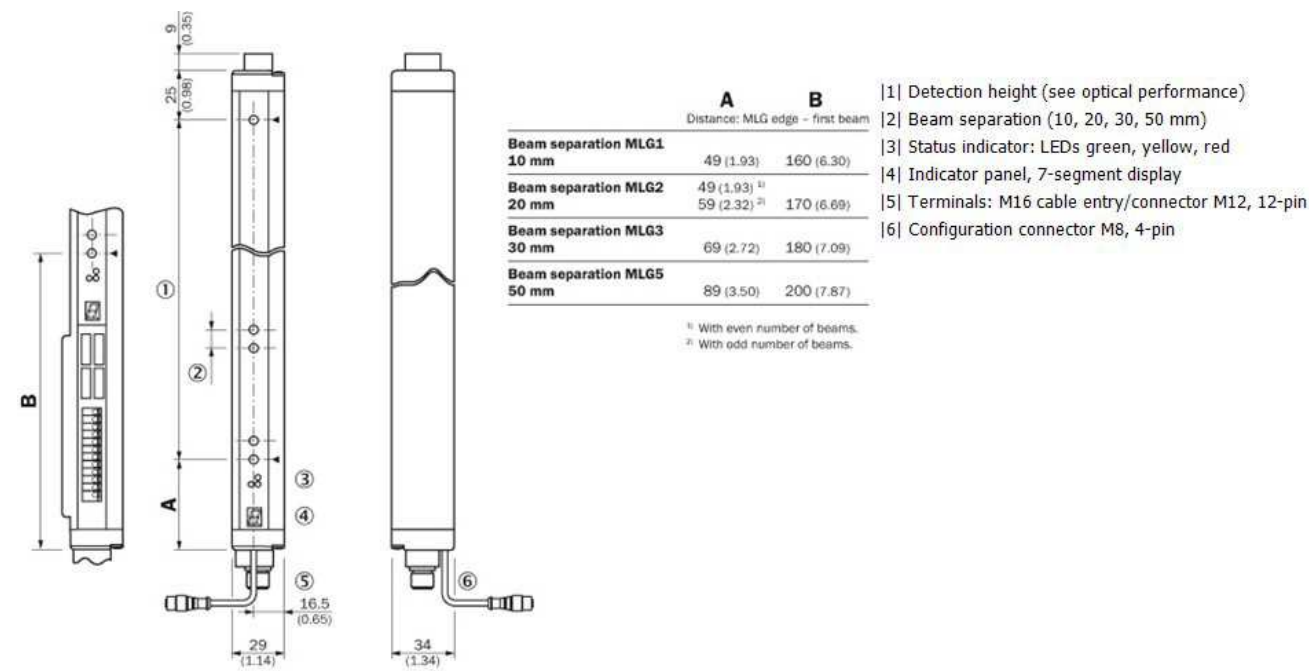
1) 2) Without load with 24 V

Ambient data

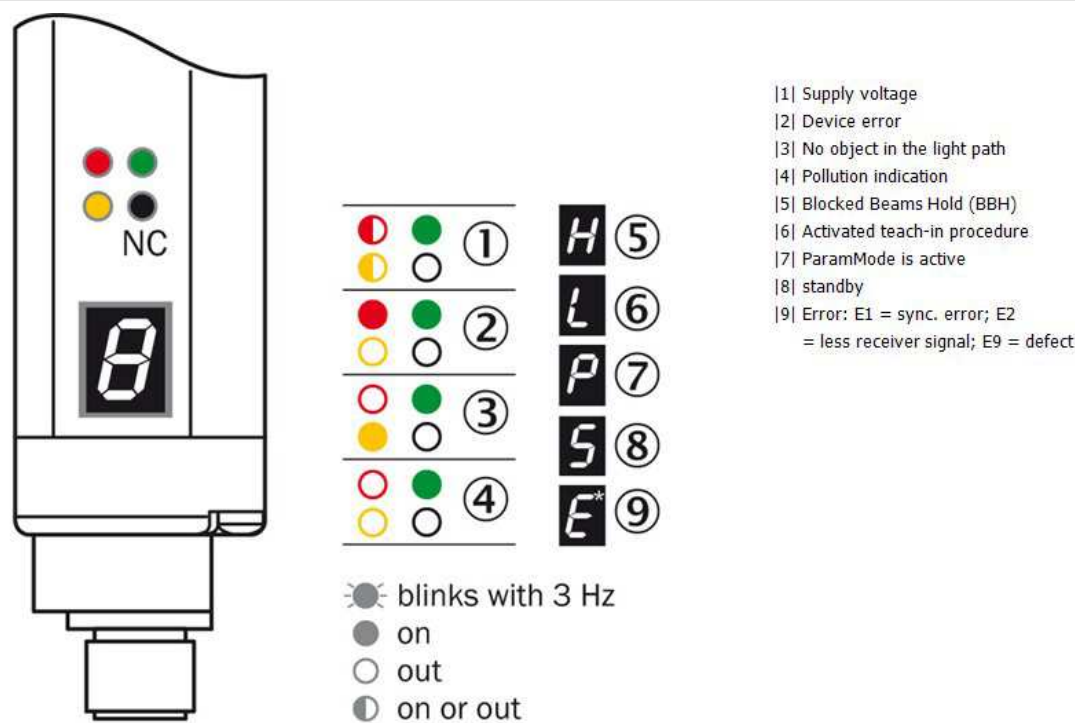
Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... +55 °C, Storage: -40 ... +70 °C
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/IEC 68-2-29/16 ms
Ambient light immunity::	Direct: ≥12,500 lx, Indirect: ≥50,000 lx ^{1) 2)}

1) 2) Sunlight

Dimensional drawing



Adjustments receiver



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