



Measuring automation light grids MLG, MLG Programmable

MLG3-1020F822



Model Name > [MLG3-1020F822](#)
Part No. > [1061971](#)



At a glance

- 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
- External teach-in for optimal sensitivity settings
- Easy-to-use setup software for customized application

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
- 6 discrete outputs for custom solutions
- Robust metal housing stands up to tough environments and reduces downtime



Features

Technology:	Sender/receiver
Minimum detectable object (MDO):	Parallel beam: ≥ 40 mm
Beam separation:	30 mm
Number of beams:	35
Detection height:	1,020 mm
Configuration:	Parameterization interface (measuring)

Performance

Maximum range ¹⁾ :	12 m
Minimum range:	Parallel beam: ≥ 0 mm
Response time ²⁾ :	Parallel beam: ≥ 6.25 ms
Working range:	8.5 m

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

Interfaces

Output type:	3 x PNP
Inputs:	1 x PNP
Connection type:	Male connector M12, 8-pin

Mechanics/electronics

Wave length:	IR 880 nm
Supply voltage Vs:	DC 18 V ... 30 V
Power consumption sender ¹⁾ :	210 mA
Power consumption receiver ²⁾ :	205 mA
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 1,114 mm x 29 mm
Housing material:	Aluminum
Indication:	7-segment display, LED
Synchronization:	Cable
Circuit protection:	Output Q short-circuit protected, Interference suppression, VS connections reverse-polarity protected
Weight:	2.846 kg
Power consumption:	210 mA ³⁾
Front screen:	PMMA

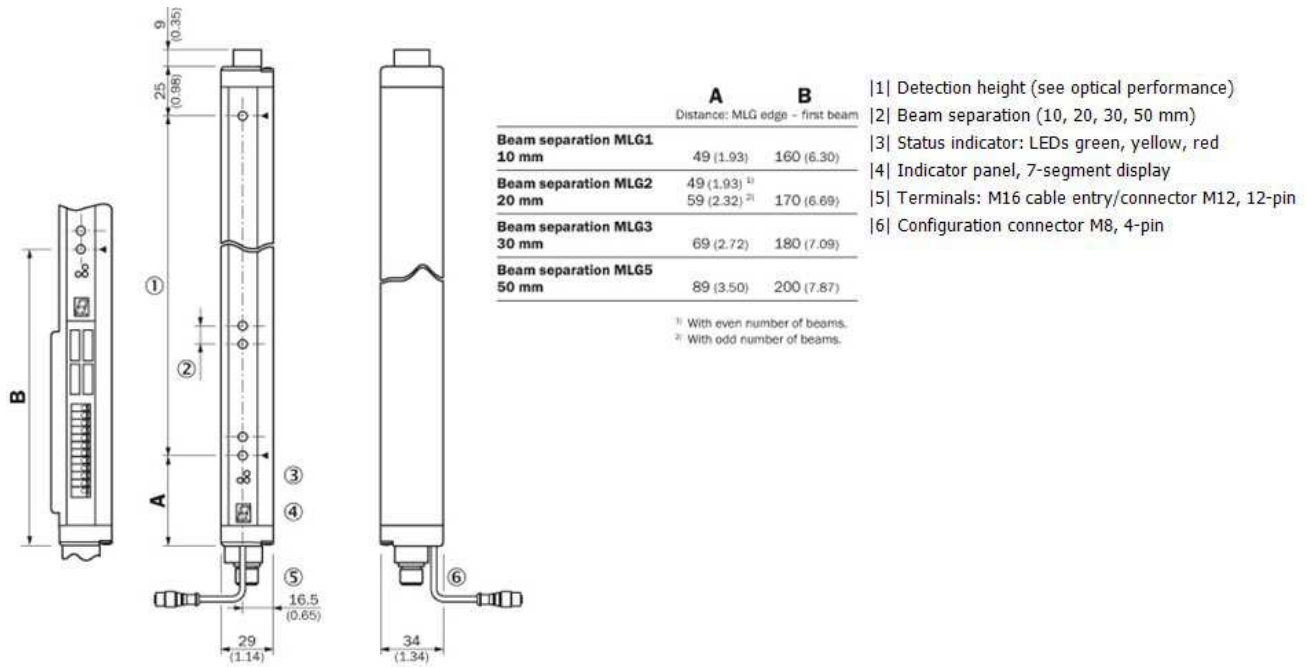
^{1) 2) 3)} Without load with 24 V

Ambient data

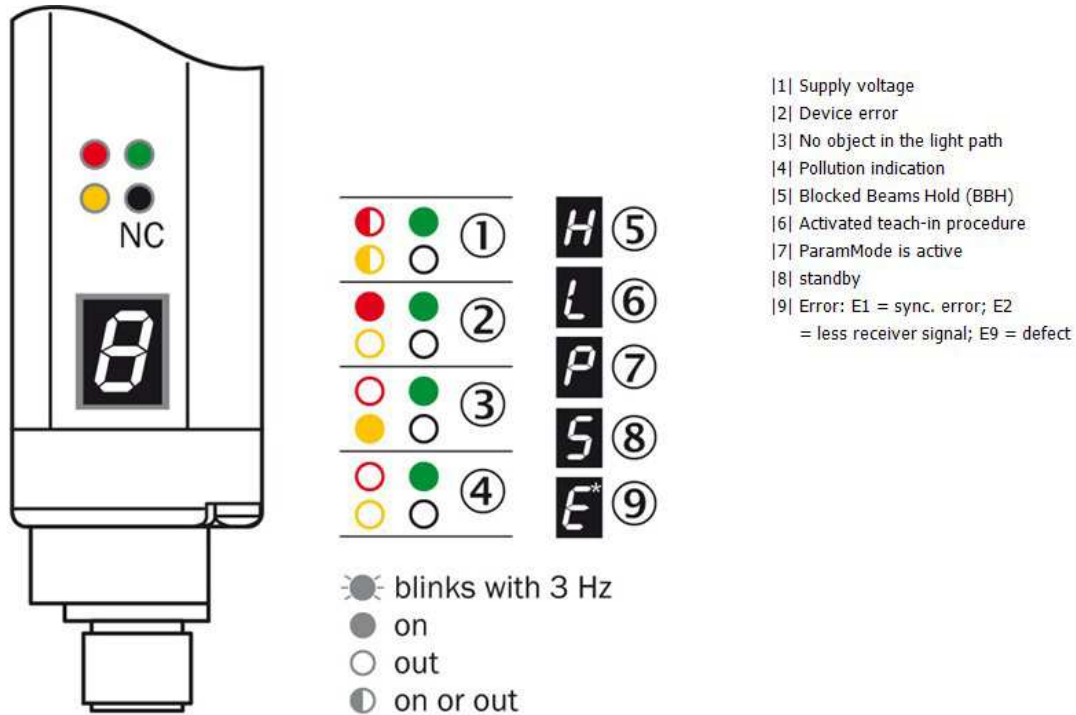
Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... +55 °C, Storage: -40 ... +70 °C
Ambient light safety ¹⁾ :	Direct: ≥12,500 lx, Indirect: ≥50,000 lx
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/IEC 68-2-29/16 ms

¹⁾ Sunlight

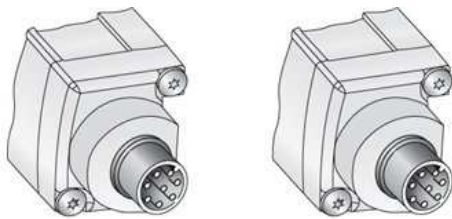
Dimensional drawing



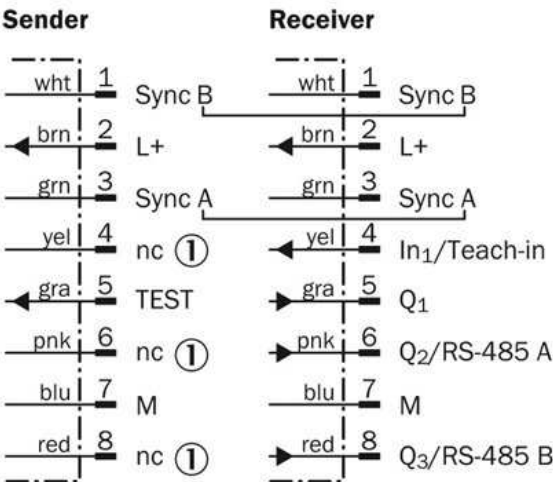
Adjustments receiver



Connection type and diagram



|1| not connected



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