



Measuring automation light grids Profibus , MLG, MLG PROFIBUS

MLG1-2390P821



Model Name > [MLG1-2390P821](#)
Part No. > [1042155](#)



At a glance

- Integrated PROFIBUS interface
- 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

Your benefits

- Integrated PROFIBUS User Organization (PNO) number and GSD file for easy connection to a PLC
- Low cabling requirement reduces installation costs
- Easy-to-see light grid status information via the bus system helps avoid interrupting operation
- Different beam separation options, detection heights and output configurations ensure a reliable solution



Features

Technology:	Sender/receiver
Task:	Measurement light grid
Minimum detectable object (MDO) ¹⁾ :	Parallel beam, 20 mm
Beam separation:	10 mm
Number of beams:	240
Detection height:	2,390 mm
Configuration:	GSD data file

¹⁾ MDO min. detectable object

Performance

Maximum range ¹⁾ :	12 m
Minimum range:	Parallel beam: ≥ 0 mm
Response time ²⁾ :	Parallel beam 37 ms
Working range:	8.5 m

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

Interfaces

Data interface:	Profibus
Output type:	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 V_s ¹⁾ :	DC 18 V ... 30 V
Power consumption sender ²⁾ :	620 mA
Power consumption receiver ³⁾ :	820 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 2,464 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:	5.997 kg
Front screen:	PMMA
Synchronization:	Cable

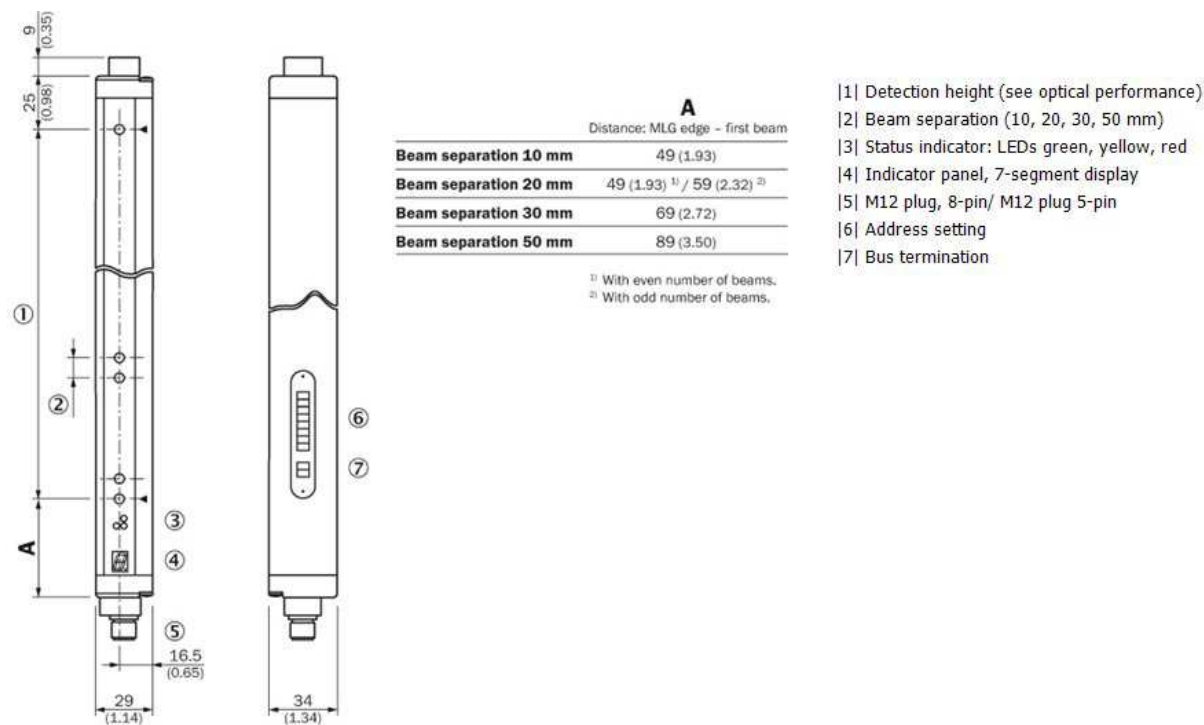
¹⁾ Without load ^{2) 3)} Without load with 24 V

Ambient data

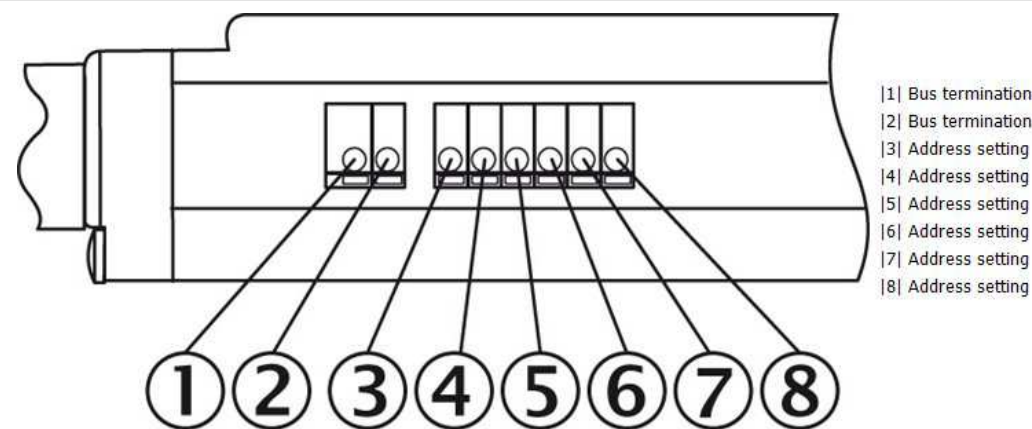
Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... +55 °C, Storage: -40 ... +70 °C
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/IEC 68-2-29/16 ms
Ambient light immunity::	Direct: ≥12,500 lx, Indirect: ≥50,000 lx ^{1) 2)}

^{1) 2)} Sunlight

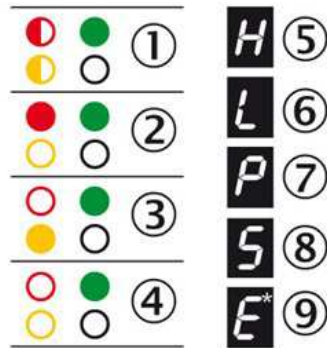
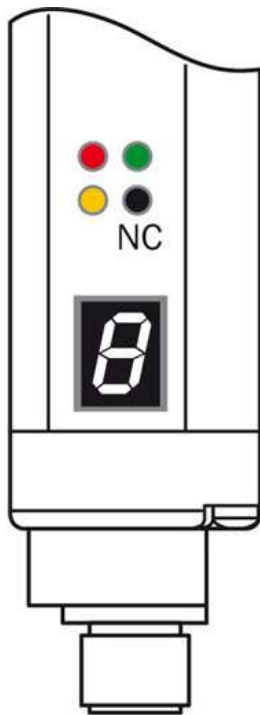
Dimensional drawing



Adjustments DIP switches



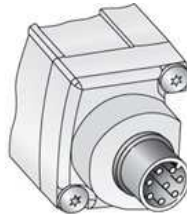
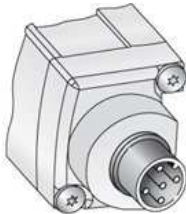
Adjustments receiver



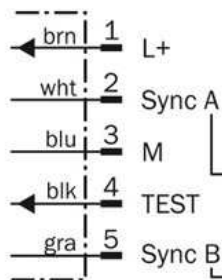
blinks with 3 Hz
 on
 out
 on or out

- |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

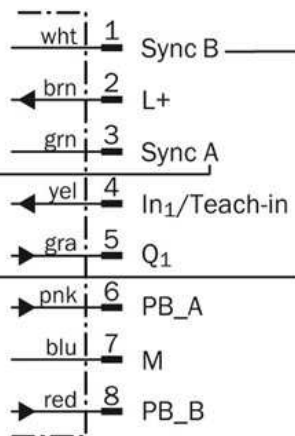
Connection type and diagram



Sender



Receiver



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