

MLG05W-0393G12501

MLG-2 WebChecker

MEASURING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
MLG05W-0393G12501	1135087

Other models and accessories → www.sick.com/MLG-2_WebChecker

Illustration may differ



Detailed technical data

Features

Device version	Web guiding
Sensor principle	Sender/receiver
Minimum object length	4 mm ¹⁾
Beam separation	5 mm
Resolution	0.1 mm
Cycle time	32 µs per beam
Repeatability	6 μm ²⁾
Accuracy	± 0.3 mm ³⁾
Type of synchronization	Cable
Number of beams	180
Total measuring field width	2,245 mm
Measuring field width detailed	
Measuring field width (connection side)	445 mm
Blind zone (medium range)	1,355 mm
Measuring field width (head side)	445 mm
Software features (default)	
Q ₁ /C	Alarm, general
Q_2	Standard teach-in
Q ₃	Edge position 1

¹⁾ See graphic: product definition.

 $^{^{2)}\,\}mathrm{1\,sigma},\,\mathrm{0\%}$ object transmission (sensor internal value).

 $^{^{\}rm 3)}$ Typical 0.1 mm. For opaque objects and exact alignment of sender/receiver.

•••	Edge position 1, rising Standard mode
Included with delivery	$1\times$ sender $1\times$ receiver $4/6\times$ QuickFix brackets for monitoring heights above 2 m) $1\times$ Quick Start Guide

¹⁾ See graphic: product definition.

Mechanics/electronics

LED, Infrared light Wave length Supply voltage V _s LED, Infrared light 850 nm DC 19.2 V 28.8 V 1)
Supply voltage V_s DC 19.2 V 28.8 V $^{1)}$
Power consumption sender 64 mA ²⁾
Power consumption receiver 156 mA ²⁾
Ripple < 5 V _{pp}
Output current I _{max.} 100 mA
Output load, capacitive 100 nF
Output load, Inductive 1 H
Initialization time < 1 s
Switching output Push-pull: PNP/NPN
Dimensions (W x H x D) 34 mm x 2,329.4 mm x 30.6 mm
Connection type Male connector M12, 5-pin, 0.22 m Male connector M12, 8-pin, 0.27 m M12 female connector, 4-pin, D-coded, 0.19 m
Housing material Aluminum
Indication LED
Enclosure rating IP65, IP67 3)
Circuit protection U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class
Weight 4.759 kg
Front screen PMMA
Front screen PMMA Option None

¹⁾ Without load.

Performance

Maximum range	3.5 m ¹⁾

¹⁾ No reserve for environmental issue and deterioration of the diode.

²⁾ 1 sigma, 0% object transmission (sensor internal value).

 $^{^{\}rm 3)}$ Typical 0.1 mm. For opaque objects and exact alignment of sender/receiver.

²⁾ Without load with 24 V.

 $^{^{\}rm 3)}$ Operating in outdoor condition only with a external protection housing.

²⁾ With resistive load.

Minimum range	≥ 0.2 m
Operating range	2.5 m
Response time	36.7 ms ²⁾

 $^{^{1)}\,\}mathrm{No}$ reserve for environmental issue and deterioration of the diode.

Communication interface

IO-Link	√ , IO-Link V1.1
IO-LINK	▼, IO-LIIIK VI.I
Data transmission rate	230,4 kbit/s (COM3)
Maximum cable length	20 m
Cycle time	14 ms
VendorID	26
DeviceID HEX	80022F
DeviceID DEC	8389167
Process data length	32 Byte (TYPE_2_V) ¹⁾
Analog	✓ , Current
Inputs/outputs	1 x analog + 3 x Q (IO-Link)
Analog output	Q_{A1}
Number	1
Туре	Current output
Current	4 mA 20 mA
Digital output	$Q_1 \dots Q_3$
Number	3
Digital input	Q_2, Q_3
Number	2

¹⁾ With an IO-Link master with V1.0, fall back to interleaved mode (consisting of TYPE_1_1 (ProcessData) and TYPE_1_2 (On-request Data)).

Ambient data

Shock resistance	Continuous shocks 10 g, 16 ms, 1000 shocks Single shocks 15 g, 11 ms 3 per axle
Vibration resistance	Sinusoidal oscillation 10-150 Hz 5 g
Ambient light immunity	100,000 lx
Ambient operating temperature	-30 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C

Classifications

ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910

²⁾ With resistive load.

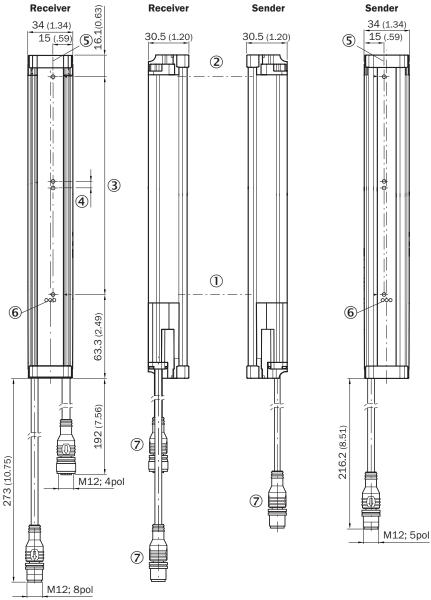
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ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))

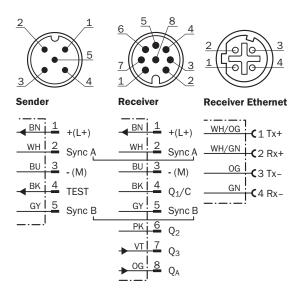
Dimensional drawing



- ① First beam
- ② Last beam
- 3 Total measuring field width (see technical data)
- Beam separation
- ⑤ Optical axis
- 6 Status indicator: green, yellow, red LEDs

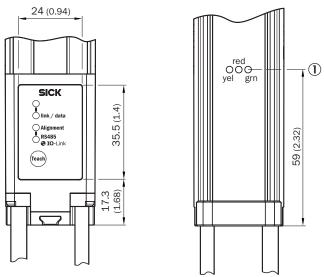
Connection type and diagram

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Adjustments

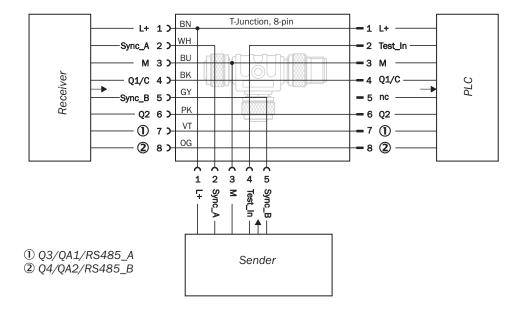
Adjustments



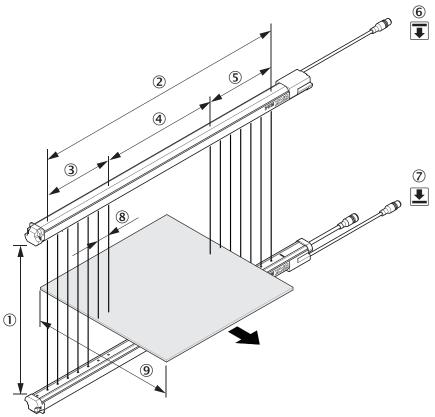
① Status indicator: green, yellow, red LEDs

Connection diagram

T-piece



Product definition



- ① Operating range
- ② Total measuring field width
- 3 Measuring field width (head side)
- ④ Blind zone (medium range)
- Measuring field width (connection side)
- 6 Sender
- ⑦ Receiver
- 8 Beam separation
- Minimum object length

Recommended accessories

Other models and accessories → www.sick.com/MLG-2_WebChecker

	Brief description	Туре	Part no.	
Plug connectors and cables				
66	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 2 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 020PN1MRJA4	2106182	

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	Brief description	Туре	Part no.		
Others	Others				
10	 Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, special color code, shielded Connection systems: Flying leads 	DOL-1208-G05MF	6020664		
See.	 Connection type head A: Female connector, M12, 5-pin, A-coded Connection type head B: Female connector, M12, 8-pin, A-coded Connection type head C: Male connector, M12, 8-pin, A-coded Note: Male connector M12, 8-pin, to 1 x female connector M12, 8-pin, to 1 x female connector M12, 5-pin, for connecting of a PLC 	SB0-02F12-SM1	6053172		
to to	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Male connector, M12, 5-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A15- 020UB5M2A15	2096009		
1	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation 	YF2A28- 020UA6M2A28	2096105		
Sensor Integra	Sensor Integration Gateway				
	 Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API Product category: IO-Link Master 	SIG200-0A0412200	1089794		
	Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) Logic editor: yes Communication interface: IO-Link, USB, Ethernet, REST API Product category: IO-Link Master	SIG200-0A0G12200	1102605		

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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