



MLG25N-2525N10501

MLG-2 ProNet

MEASURING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
MLG25N-2525N10501	1216531

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



Detailed technical data

Features

Version	ProNet
Technology	Sender/receiver
Minimum detectable object (MDO)	25 mm, 29 mm ^{1) 2) 3)}
Beam separation	25 mm
Number of beams	102
Detection height	2,525 mm
Software features	
Q1	Presence detection
Address	—
Baud rate RS-485	—
Included with delivery	1 × sender 1 × receiver 4/6 x QuickFix brackets (6 x QuickFix brackets for monitoring heights above 2 m) 1 x mounting bracket for the fieldbus module 1 x Fieldbus module 1 × Quick Start Guide

¹⁾ MDO min. detectable object at high measurement accuracy.

²⁾ MDO min. detectable object for standard measurement accuracy.

³⁾ Depending on beam separation without cross beam setting.

Mechanics/electronics

Light source	LED, Infrared light
Wave length	850 nm
Supply voltage V_s	DC 18 V ... 30 V ¹⁾
Power consumption sender	60.1 mA ²⁾
Power consumption receiver	140.4 mA ²⁾

¹⁾ Without load.

²⁾ , Without load with 24 V.

³⁾ Operating in outdoor condition only with a external protection housing.

Ripple	< 5 V _{pp}
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 2,623.3 mm x 30.6 mm
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	III
Weight	5.347 kg
Front screen	PMMA
Option	Nonexistent

¹⁾ Without load.

²⁾ , Without load with 24 V.

³⁾ Operating in outdoor condition only with a external protection housing.

Performance

Maximum range	7 m ¹⁾
Minimum range	≥ 0 m
Operating range	5 m
Response time	9.2 ms ²⁾ ³⁾

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

²⁾ Without high speed.

³⁾ With resistive load.

Interfaces

Interface	PROFINET
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Ambient data

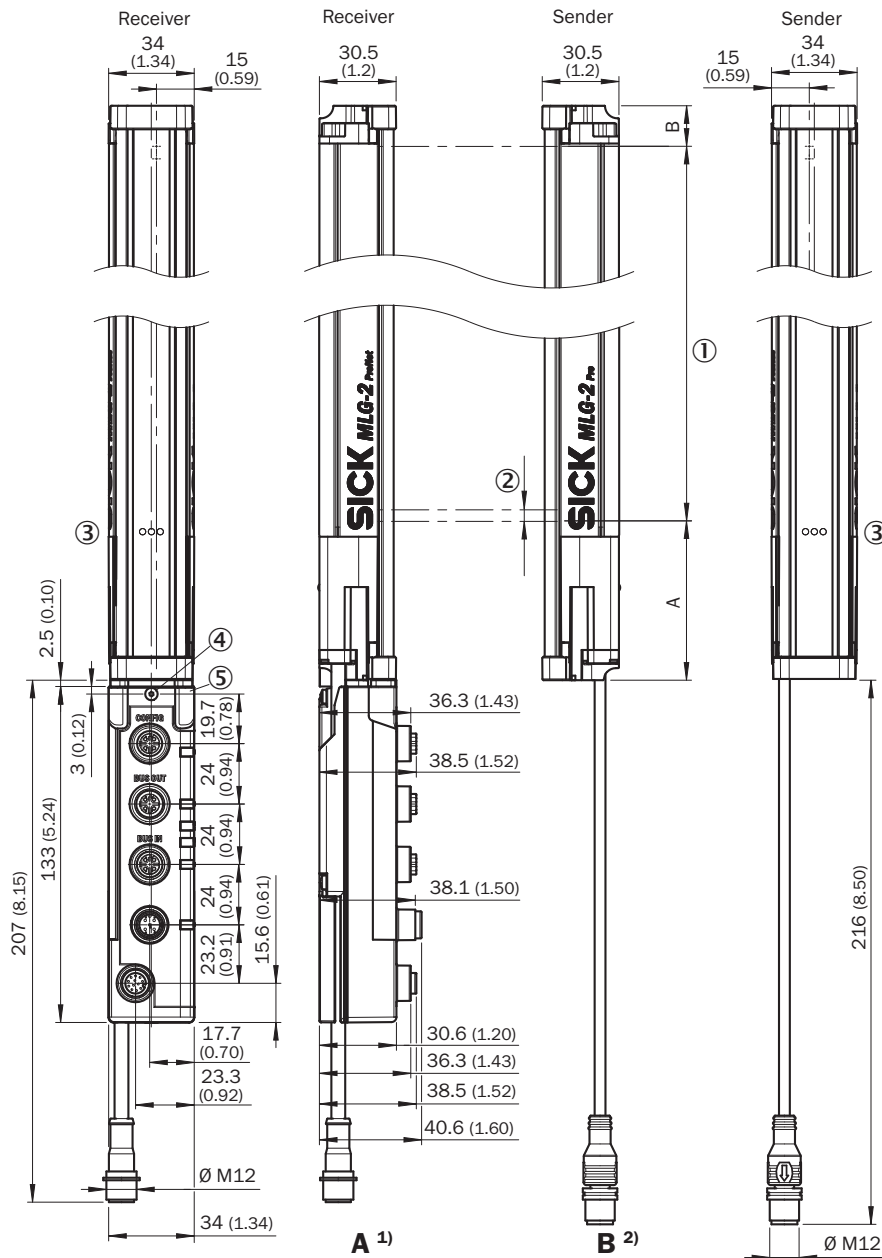
Protection class	III
EMC	EN 60947-5-2
Ambient operating temperature	-30 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
Ambient light immunity	Direct: 150,000 lx ¹⁾ Indirect: 200,000 lx ²⁾
Vibration resistance	Sinusoidal oscillation 10-150 Hz 5 g
Shock load	Continuous shocks 10 g, 16 ms, 1000 shocks Single shocks 15 g, 11 ms 3 per axle
UL File No.	NRKH.E181493 (Sensor) NRAQ.E238799 (Fieldbus module)

¹⁾ Outdoor mode.

²⁾ Light resistance indirect.

Classifications

ECI@ss 5.0	27270910
ECI@ss 5.1.4	27270910
ECI@ss 6.0	27270910
ECI@ss 6.2	27270910
ECI@ss 7.0	27270910
ECI@ss 8.0	27270910
ECI@ss 8.1	27270910
ECI@ss 9.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))


Beam separation 2.5 mm	62.25 (2.45)	17.15 (0.68)
Beam separation 5 mm	63.3 (2.49)	16.1 (0.63)
Beam separation 10 mm	68.3 (2.69)	16.1 (0.63)
Beam separation 20 mm	68.3 (2.69)/78.3 (3.08) ³⁾	16.1 (0.63)
Beam separation 25 mm	83.3 (3.28)	16.1 (0.63)
Beam separation 30 mm	88.3 (2.69)	16.1 (0.63)
Beam separation 50 mm	108.3 (4.26)	16.1 (0.63)

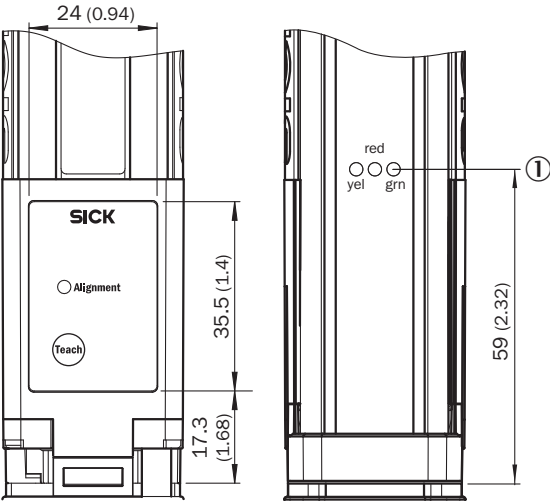
¹⁾ Distance: MLG-2 edge - first beam

²⁾ Distance: MLG-2 edge - last beam

³⁾ MLG20x-xx**40**: 68.3 mm
MLG20x-xx**80**: 78.3 mm

- ① Detection height (see optical performance)
- ② Beam separation (RM)
- ③ Status indicator: green, yellow, red LEDs
- ④ Safety screw M4; turning moment 0,5 Nm
- ⑤ For thread bold M4; turning moment 0,5 Nm

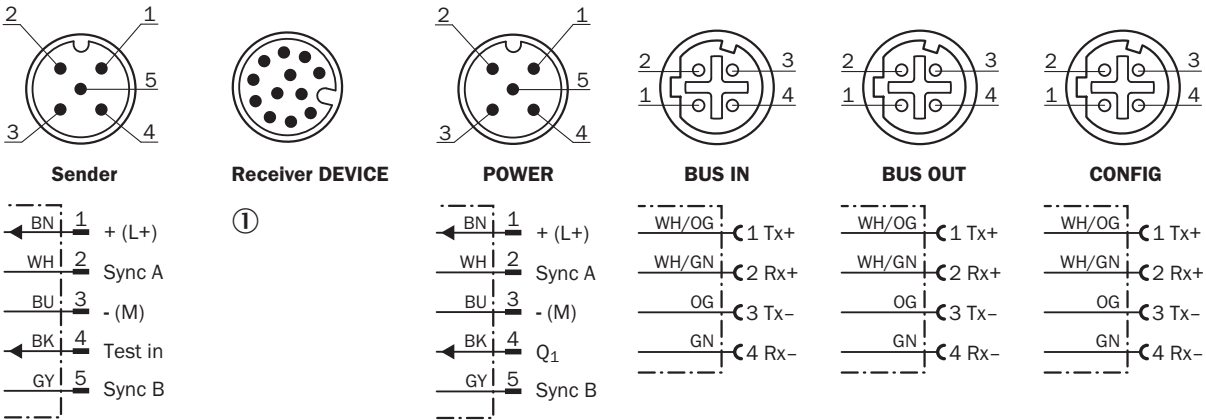
Adjustments



① Status indicator: green, yellow, red LEDs

Connection type and diagram

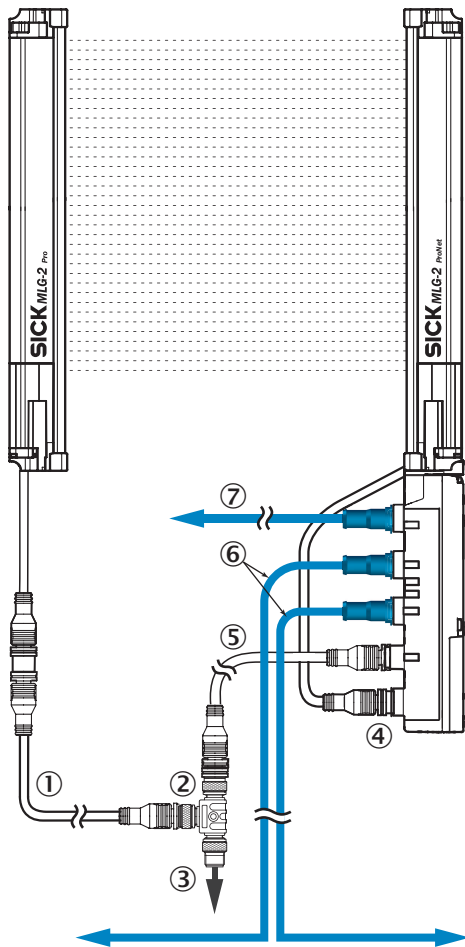
PROFINET, EtherCAT®, EtherNet/IP



① Connection to fieldbus module

Connection type

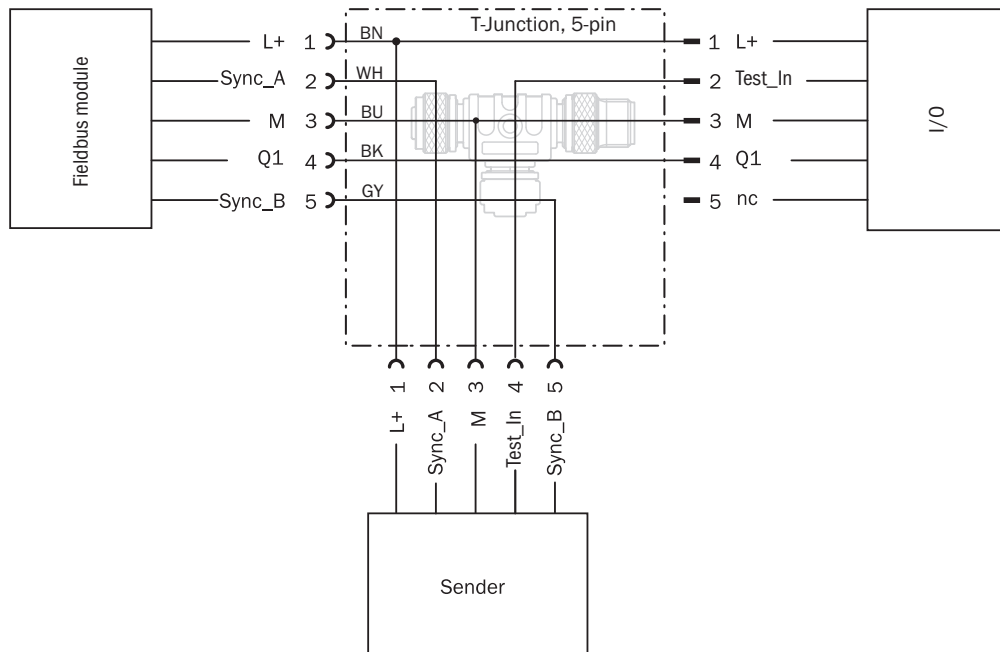
Ethernet



- ① Connection cable receiver (DSL-1205-GxxMC)
- ② T-piece
- ③ Connection cable (DOL-1205-GxxM)
- ④ Connection receiver "DEVICE"
- ⑤ Connection cable "POWER" (DSL-1205-GxxMC)
- ⑥ Ethernet Connection cable "BUS IN, BUS OUT"
- ⑦ Ethernet connection cable "CONFIG"

Connection diagram

T-piece



Recommended accessories

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

	Brief description	Type	Part no.
Terminal and alignment brackets			
	Bracket for external mounting of the fieldbus module, 1 x angle holder and 1 x screw M5 x 6-8.8, Stainless steel V2A (1.4301)	BEF-WN-FBM-SET1	2082322
Adapters and distributors			
		SB0-02G12-SM	6029305
Plug connectors and cables			
	Head A: male connector, M12, 4-pin, D-coded Head B: male connector, M12, 4-pin, D-coded Cable: Ethernet, twisted pair, PUR, halogen-free, shielded, 5 m	SSL-1204-G05ME	6034422
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, twisted pair, PUR, halogen-free, shielded, 5 m	SSL-2J04-G05ME	6034415

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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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