



OLM100-1201

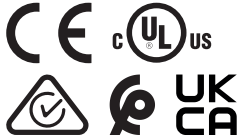
OLM

OPTICAL LINEAR MEASUREMENT SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
OLM100-1201	1053074

Other models and accessories → www.sick.com/OLM

Detailed technical data

Features

Measuring range	0 m ... 10,000 m ¹⁾
Resolution	0.1 mm, 1 mm
Repeatability	0.15 mm ²⁾
Output time	1 ms
Light source	LED, red
Max. movement speed	7 m/s
Reading distance	100 mm, ± 20 mm
Barcode width	30 mm

¹⁾ Dependent on the set resolution and transfer protocol.

²⁾ Statistical error 3 σ.

Interfaces

SSI	✓
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Electronics

Supply voltage V_s	DC 10 V ... 30 V ¹⁾
Ripple	≤ 5 V _{pp}
Power consumption	< 3 W
Initialization time	< 3 s
Enclosure rating	IP65
Protection class	III

¹⁾ Limit values, reverse-polarity protected.

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 / EN 61000-6-4
Ambient temperature, operation	-30 °C ... +60 °C ¹⁾
Ambient temperature, storage	-40 °C ... +75 °C ²⁾
Typ. Ambient light immunity	≤ 9,000 lx ³⁾
Vibration resistance	DIN/EN 60068-2-6, DIN/EN 60068-2-64
Shock resistance	DIN/EN 60068-2-27

¹⁾ Temperatures < -20 °C with 5 min warm-up time.

²⁾ Max. 95 % humidity, non-condensing.

³⁾ Typ. value at +25 °C ambient temperature.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Technical drawing of the SICK S3000 sensor showing three views: front, side, and top. The front view shows a square sensor head with four mounting holes (Ø 5.5) and two cable ports. The side view shows the profile of the sensor head and the cable port. The top view shows the sensor head from above, highlighting the SICK logo and the cable port. Dimensions are provided in millimeters and inches.

Front View Dimensions:

- Overall width: 64.6 (2.54)
- Overall height: 44.4 (1.75)
- Mounting hole diameter: Ø 5.5 (Ø 0.22)
- Distance from top edge to mounting holes: 31.9 (1.26)
- Distance from bottom edge to mounting holes: 21 (0.83)

Side View Dimensions:

- Overall height: 69.4 (2.73)
- Distance from top edge to cable port: 24 (0.94)
- Distance from bottom edge to cable port: 24.3 (0.96)

Top View Dimensions:

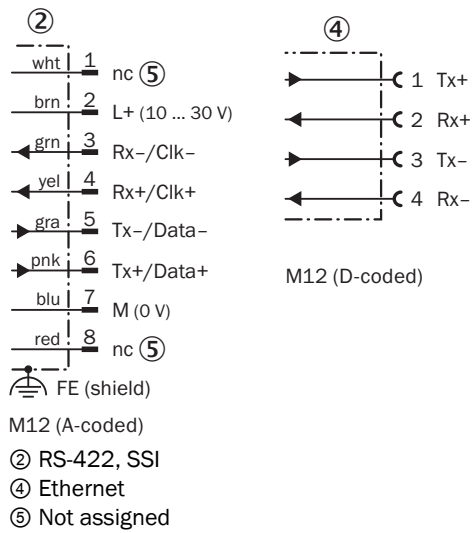
- Overall width: 74.4 (2.93)
- Distance from left edge to cable port: 13.8 (0.54)
- Distance from right edge to cable port: 22 (0.87)
- Distance from bottom edge to cable port: 2 (0.08)
- Overall height: 42 (1.65)

- ① Reference axis position measurement
- ② Mounting holes, Ø 5.5 mm
- ③ Connector M12, 5-pin
- ④ Ethernet M12 female connector, 4-pin
- ⑤ status LED [status]
- ⑥ T-slot
- ⑦ Adjustment aid (slot)

Diagram of the rear panel of the device. It shows two circular ports, labeled 2 and 4, which are the input and output ports for the external power supply. The ports are connected to a power supply unit via a cable.

- ② RS-422, SSI
- ④ Ethernet

Connection diagram OLM100-10x1 OLM100-10x3 1 x socket M12, 4-pin 1 x connector M12, 8-pin



Recommended accessories

Other models and accessories → www.sick.com/OLM

	Brief description	Type	part no.
Codes			
	Product family: Positioning codes Description: 30 mm, height: 25 mm, measuring range: customer-specific	Customer-specific bar code tape	5328960
	Product family: Positioning codes Description: 30 mm, height: 60 mm, measuring range: customer-specific	Customer-specific bar code tape	5327812
	Product family: Positioning codes Description: 30 mm, height: 100 mm, measuring range: customer-specific	Customer-specific bar code tape	5327576
	Product family: Positioning codes Description: 30 mm, height: 30 mm, measuring range: customer-specific	Customer-specific bar code tape	5322556
	Product family: Positioning codes Description: 30 mm, height: 40 mm, measuring range: customer-specific	Customer-specific bar code tape	5323951
Mounting systems			
	Description: Sliding nut set, M5, 4x Packing unit: 4 pieces Items supplied: Included in delivery	Sliding nuts	2017550

	Brief description	Type	part no.
connectors and cables			
	• Connection type head A: Male connector, M12, 8-pin, straight, A-coded • Description: Shielded • Connection systems: Screw-type terminals • Permitted cross-section: $\leq 0.5 \text{ mm}^2$	STE-1208-GA	6028370
	• Connection type head A: Male connector, M12, 4-pin, angled, D-coded • Connection type head B: Male connector, RJ45, 8-pin, straight • Signal type: Ethernet • Cable: 2 m, 4-wire, CAT5, CAT5e, PUR, halogen-free • Description: Ethernet, shielded	SSL-2J04-H02ME	6047911
	• Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Signal type: Incremental, SSI • Cable: CAT5, CAT5e • Description: Incremental, shielded SSI • Connection systems: IDC quick connection • Permitted cross-section: $0.14 \text{ mm}^2 \dots 0.34 \text{ mm}^2$	DOS-1208-GA01	6045001
	• Connection type head A: Flying leads • Connection type head B: Flying leads • Signal type: HIPERFACE® • Items supplied: By the meter • Cable: 8-wire, twisted pair, PUR, halogen-free • Description: HIPERFACE®, shielded • Note: For DME with HIPERFACE® Interface	LTG-3108-MW	6032456
	• Connection type head A: Female connector, M12, 8-pin, angled, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 5 m, 8-wire, PVC • Description: Sensor/actuator cable, shielded • Application: Zones with chemicals, Uncontaminated zones	YG2A28-050VA6XLEAX	2096219
	• 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, shielded, PROFINET • Application: Drag chain operation, Zones with oils and lubricants	YM2D24-020P-N1MRJA4	2106182

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com