



OLM100-1201

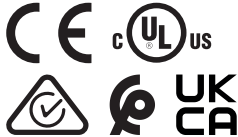
OLM

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	≤ 5,000 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.

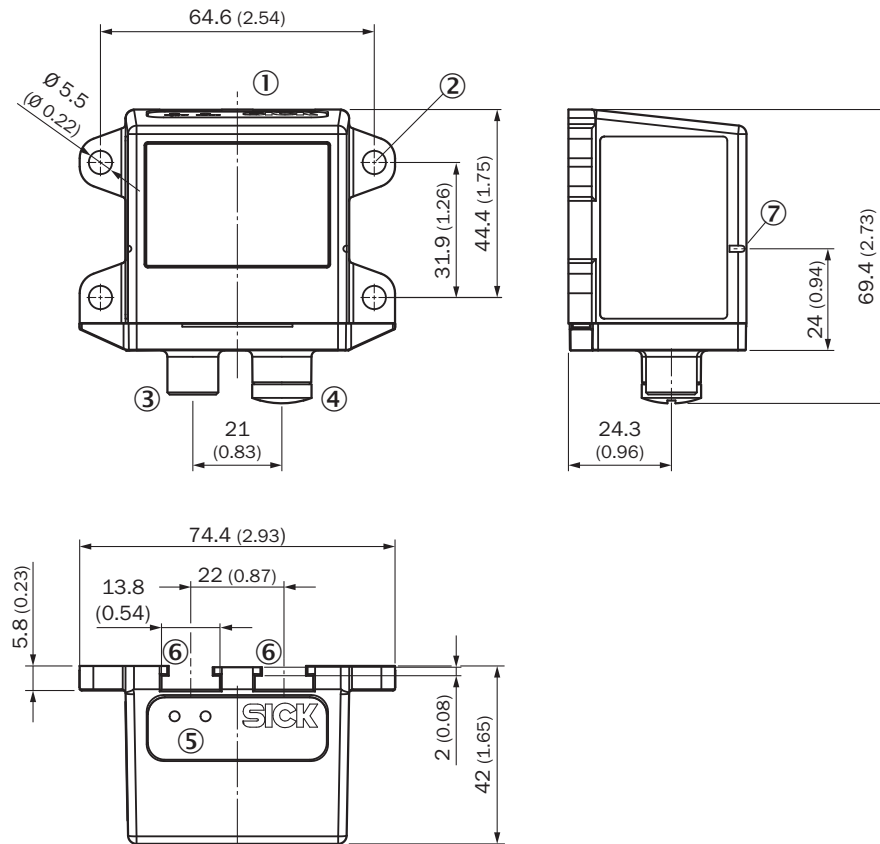
²⁾ Max. 95 % humidity, non-condensing.

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)	✓

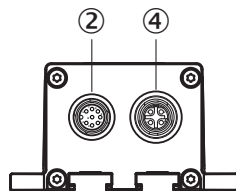
Dimensional drawing



Dimensions in mm (inch)

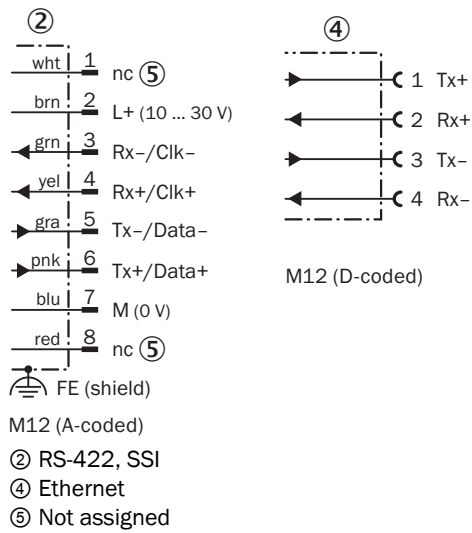
- ① Reference axis position measurement
- ② Mounting holes, $\varnothing 5.5$ mm
- ③ Connector M12, 5-pin
- ④ Ethernet M12 female connector, 4-pin
- ⑤ status LED [status]
- ⑥ T-slot
- ⑦ Adjustment aid (slot)

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



- 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: ≤ 0.5 mm²	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, shieldedSSI • Connection systems: IDC quick connection • Permitted cross-section: 0.14 mm² ... 0.34 mm²	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, shieldedPROFINET • Application: Drag chain operation, Zones with oils and lubricants	YM2D24-020P-N1MRJA4	2106182

SICK AT A GLANCE

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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.

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For us, that is “Sensor Intelligence.”

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