

OLM100-1206 OLM

OPTICAL LINEAR MEASUREMENT SENSORS





Ordering information

Туре	part no.
0LM100-1206	1059271

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

Illustration may differ



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.

Interfaces

CANopen	1
CANOPEII	*

Electronics

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

 $^{^{1)}}$ Limit values, reverse-polarity protected.

 $^{^{2)}}$ Statistical error 3 $\sigma.$

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	\leq 9,000 lx $^{3)}$
Vibration resistance	DIN/EN 60068-2-6, DIN/EN 60068-2-64
Shock resistance	DIN/EN 60068-2-27

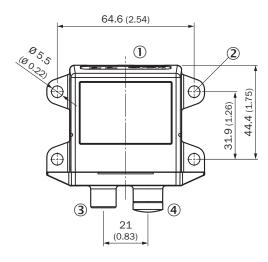
 $^{^{1)}}$ Temperatures < -20 $^{\circ}$ C with 5 min warm-up time. $^{2)}$ Max. 95 % humidity, non-condensing.

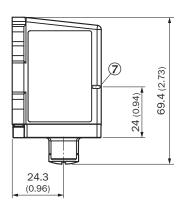
Certificates

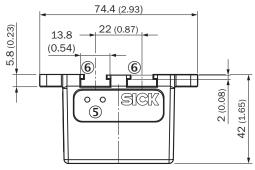
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
CANopen certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

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

Dimensional drawing



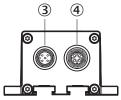




Dimensions in mm (inch)

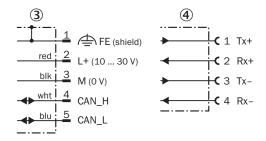
- 1 Reference axis position measurement
- ② Mounting holes, Ø 5.5 mm
- 3 Connector M12, 5-pin
- ⑤ status LED [status]
- 6 T-slot
- Adjustment aid (slot)

Pinouts OLM100-10x6 1 x socket M12, 4-pin 1 x connector M12, 5-pin



- ③ CANopen
- 4 Ethernet

Connection diagram OLM100-10x6 1 x socket M12, 4-pin 1 x connector M12, 5-pin



M12 (A-coded)

M12 (D-coded)

- ③ CANopen
- 4 Ethernet

Recommended accessories

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

	Brief description	Туре	part no.
Mounting systems			
	 Description: Sliding nut set, M5, 4x Packing unit: 4 pieces Items supplied: Included in delivery 	Sliding nuts	2017550

	Brief description	Туре	part no.
connectors an	d cables		
100	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: DeviceNet™, CANopen Cable: 1 m, PUR, halogen-free Description: DeviceNet™, shielded, CANopen	CAN cable (male connector - fe- male connector)	6021164
	 Connection type head A: Male connector, M12, 5-pin, straight Signal type: CANopen Description: CANopen, unshielded 	CAN male connector	6021167
1	 Connection type head A: Female connector, M12, 5-pin, A-coded Connection type head B: Flying leads Signal type: Power, CAN Cable: 5 m, 5-wire Description: Power, unshielded, CAN 	DOL-1205- G05M_Can	6021166
	 Connection type head A: Female connector, M12, 5-pin, A-coded Connection type head B: Female connector, M12, 5-pin, A-coded Connection type head C: Male connector, M12, 5-pin, A-coded Description: Unshielded 	DSC-1205T000025KM(6030664
0	Connection type head A: Male connector, M12, 5-pin, straight, A-coded Signal type: CANopen, DeviceNet™ Description: CANopen, shieldedDeviceNet™ Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	STE-1205-GA	6027533
80	 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
8 8	 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
Codes			
	 Product family: Positioning codes Description: 30 mm, height: 60 mm, measuring range: customer-specific 	Customer-specif- ic bar code tape	5327812
	Product family: Positioning codes Description: 30 mm, height: 100 mm, measuring range: customer-specific	Customer-specif- ic bar code tape	5327576
	 Product family: Positioning codes Description: 30 mm, height: 25 mm, measuring range: customer-specific 	Customer-specif- ic bar code tape	5328960
	 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

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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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