

OLM100-1006 OLM

OPTICAL LINEAR MEASUREMENT SENSORS





Ordering information

Туре	part no.
OLM100-1006	1047413

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	1 mm ²⁾
Output time	1 ms
Light source	LED, red
Max. movement speed	4 m/s
Reading distance	100 mm, ± 20 mm
Barcode width	30 mm

 $^{^{1)}}$ Dependent on the set resolution and transfer protocol.

Interfaces

CANopen	√

Electronics

Supply voltage V _s	DC 10 V 30 V ¹⁾
Ripple	\leq 5 V_{pp}^{2}
Power consumption	< 3 W
Initialization time	<3s
Enclosure rating	IP65

¹⁾ Limit values, reverse-polarity protected.

 $^{^{2)}}$ Statistical error 1 $\sigma.$

 $^{^{2)}\,\}mbox{May}$ not fall below or exceed $\mbox{U}_{\mbox{\scriptsize V}}$ tolerances.

Protection class

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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 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 $^{\circ}\text{C}$ with 5 min warm up time.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
CANopen certificate	✓

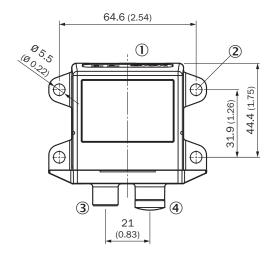
¹⁾ Limit values, reverse-polarity protected.

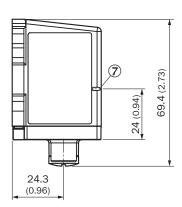
²⁾ May not fall below or exceed U_V tolerances.

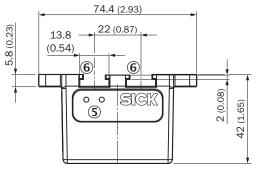
²⁾ Max. 95 % humidity, non-condensing.

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

Dimensional drawing



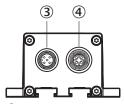




Dimensions in mm (inch)

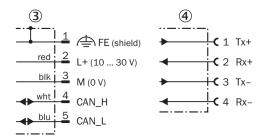
- 1 Reference axis position measurement
- ② Mounting holes, Ø 5.5 mm
- 3 Connector M12, 5-pin
- ⑤ status LED [status]
- T-slot
- Adjustment aid (slot)

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 syst	Mounting systems		
	 Description: Sliding nut set, M5, 4x Packing unit: 4 pieces Items supplied: Included in delivery 	Sliding nuts	2017550
connectors ar	nd cables		
1	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, CAN cableCANopen	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, unshieldedCAN 	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
	 Connection type head A: Male connector, M12, 5-pin, straight, A-coded Signal type: CANopen, DeviceNet™ Description: CANopen, shielded, Head A: male connector, M12, 5-pin, straight, A coded, shielded, for cable diameter 4 mm 8 mm Head B: -DeviceNet™ Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	STE-1205-GA	6027533

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	Brief description	Туре	part no.
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: 40 mm, measuring range: customer-specific 	Customer-specif- ic bar code tape	5323951
	 Product family: Positioning codes Description: 30 mm, height: 30 mm, measuring range: customer-specific 	Customer-specif- ic bar code tape	5322556

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.

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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