

OLM100-1051 OLM

OPTICAL LINEAR MEASUREMENT SENSORS





Ordering information

Туре	part no.
OLM100-1051	1050136

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

Illustration may differ



Detailed technical data

Features

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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	130 mm, ± 20 mm
Barcode width	40 mm

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

Interfaces

|--|

Electronics

Supply voltage V _s	DC 10 V 30 V ¹⁾
Ripple	≤ 5 V _{pp} ²⁾
Power consumption	< 3 W
Initialization time	<3s
Enclosure rating	IP65
Protection class	III

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

²⁾ Statistical error 1 σ .

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

Ambient data

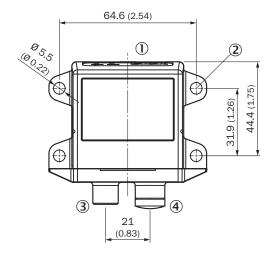
Electromagnetic compatibility (EMC)	EN 61000-6-2 / EN 61000-6-4
Ambient temperature, operation	-30 °C +60 °C ¹⁾
Ambient temperature, storage	-40 °C +75 °C ²⁾
Typ. Ambient light immunity	\leq 5,000 lx $^{3)}$
Vibration resistance	DIN/EN 60068-2-6, DIN/EN 60068-2-64
Shock resistance	DIN/EN 60068-2-27

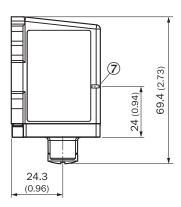
 $^{^{1)}}$ Temperatures < –20 $^{\circ}\text{C}$ with 5 min warm up time.

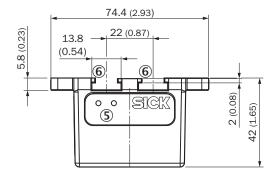
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	1

Dimensional drawing







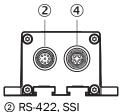
²⁾ Max. 95 % humidity, non-condensing.

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

Dimensions in mm (inch)

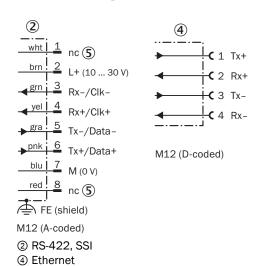
- ① Reference axis position measurement
- ② Mounting holes, Ø 5.5 mm
- 3 Connector M12, 5-pin
- 4 Ethernet M12 female connector, 4-pin
- ⑤ status LED [status]
- ⑥ T-slot
- ⑦ Adjustment aid (slot)

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



4 Ethernet

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



Recommended accessories

⑤ Not assigned

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	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 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
96	 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, Head A: male connector, M12, 4-pin, angled, D coded Head B: male connector, RJ45, 8-pin, straight Cable: PUR, halogen-free, shielded, 2 x 2 x 0.14 mm², Ø 6.4 mm 	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, Head A: female connector, M12, 8-pin, straight, A encoded, shielded, for cable diameter 4 mm 8 mm Head B: - Operating temperature: -40 °C +85 °CSSI Connection systems: IDC quick connection Permitted cross-section: 0.14 mm² 0.34 mm²	DOS-1208-GA01	6045001
All the second	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
6 6	 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

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For us, that is "Sensor Intelligence."

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