



# OLM100-1206

OLM100 Hi

LINEAR MEASUREMENT SENSORS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
OLM100-1206	1059271

Other models and accessories → [www.sick.com/OLM100\\_Hi](http://www.sick.com/OLM100_Hi)



## Detailed technical data

### Mechanics/electronics

<b>Supply voltage <math>V_s</math></b>	DC 10 V ... 30 V <sup>1)</sup>
<b>Ripple</b>	$\leq 5 V_{pp}$
<b>Power consumption</b>	< 3 W
<b>Initialization time</b>	< 3 s
<b>Enclosure rating</b>	IP65
<b>Protection class</b>	III

<sup>1)</sup> Limit values, reverse-polarity protected.

### Performance

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

<sup>1)</sup> Dependent on the set resolution and transfer protocol.

<sup>2)</sup> Statistical error 3  $\sigma$ .

### Interfaces

<b>CANopen</b>	✓
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### Ambient data

<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-2 EN 61000-6-4
<b>Ambient temperature, operation</b>	-30 °C ... +60 °C <sup>1)</sup>

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

<sup>2)</sup> Max. 95 % humidity, non-condensing.

<sup>3)</sup> Typ. value at +25 °C ambient temperature.

<b>Ambient temperature, storage</b>	-40 °C ... +75 °C <sup>2)</sup>
<b>Typ. Ambient light immunity</b>	≤ 5,000 lx <sup>3)</sup>
<b>Vibration resistance</b>	DIN/EN 60068-2-6, DIN/EN 60068-2-64
<b>Shock resistance</b>	DIN/EN 60068-2-27

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

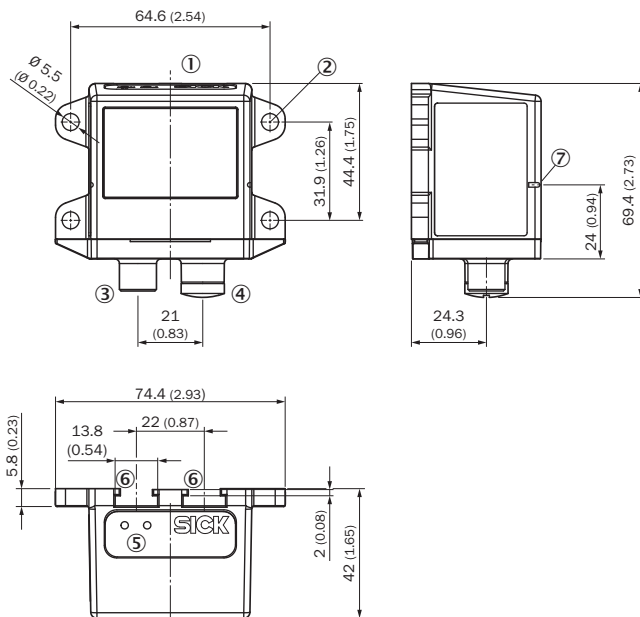
<sup>2)</sup> Max. 95 % humidity, non-condensing.

<sup>3)</sup> Typ. value at +25 °C ambient temperature.

## Classifications

<b>eCl@ss 5.0</b>	27270890
<b>eCl@ss 5.1.4</b>	27270890
<b>eCl@ss 6.0</b>	27270890
<b>eCl@ss 6.2</b>	27270890
<b>eCl@ss 7.0</b>	27270890
<b>eCl@ss 8.0</b>	27270890
<b>eCl@ss 8.1</b>	27270890
<b>eCl@ss 9.0</b>	27270890
<b>eCl@ss 10.0</b>	27270890
<b>eCl@ss 11.0</b>	27270890
<b>eCl@ss 12.0</b>	27280106
<b>ETIM 5.0</b>	EC001825
<b>ETIM 6.0</b>	EC001825
<b>ETIM 7.0</b>	EC001825
<b>ETIM 8.0</b>	EC001825
<b>UNSPSC 16.0901</b>	39121528

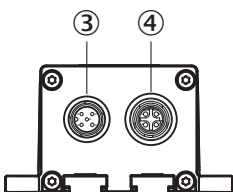
## Dimensional drawing (Dimensions in mm (inch))



- 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)

## Connection type

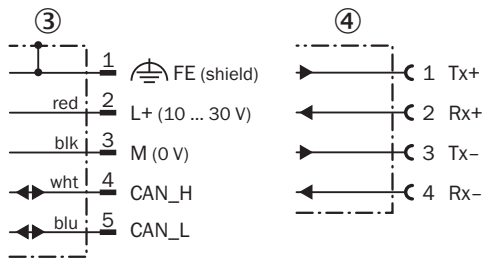
OLM100-10x6 1 x socket M12, 4-pin 1 x connector M12, 5-pin



- 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/OLM100\\_Hi](http://www.sick.com/OLM100_Hi)

	Brief description	Type	Part no.
<b>Codes</b>			
	30 mm, height: 60 mm, measuring range: customer-specific	Customer-specific bar code tape	5327812
	30 mm, height: 100 mm, measuring range: customer-specific	Customer-specific bar code tape	5327576
	30 mm, height: 25 mm, measuring range: customer-specific	Customer-specific bar code tape	5328960
	30 mm, height: 30 mm, measuring range: customer-specific	Customer-specific bar code tape	5322556
	30 mm, height: 40 mm, measuring range: customer-specific	Customer-specific bar code tape	5323951
<b>Distributors</b>			
	Head A: female connector, M12, 5-pin, A-coded Head B: male connector, M12, 5-pin, A-coded 5-pin	DSC-1205T000025KM0	6030664
<b>Other mounting accessories</b>			
	4 pieces, Sliding nut set, M5, 4x, Included in delivery	Sliding nuts	2017550
<b>Plug connectors and cables</b>			
	Head A: female connector, M12, 5-pin, A-coded Head B: Flying leads Cable: Power, CAN, unshielded, 5 m	D0L-1205-G05M_Can	6021166
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: male connector, M12, 5-pin, straight, A-coded Cable: Power, CANopen, shielded, 1 m	CAN cable (male connector - female connector)	6021164

	Brief description	Type	Part no.
	Head A: male connector, M12, 4-pin, angled, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, PUR, halogen-free, shielded, 2 m	SSL-2J04-H02ME	6047911
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 4-pin, straight Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 2 m	YM2D24-020PN1MRJA4	2106182
	Head A: male connector, M12, 5-pin, straight, A-coded Cable: CANopen, DeviceNet™, shielded	STE-1205-GA	6027533
	Head A: male connector, M12, 5-pin, straight Cable: CANopen, unshielded	CAN male connector	6021167

### Recommended services

Additional services → [www.sick.com/OLM100\\_Hi](http://www.sick.com/OLM100_Hi)

	Type	Part no.
Warranty extensions		
<ul style="list-style-type: none"> <li>• <b>Product area:</b> Identification solutions, machine vision, Distance sensors, Detection and ranging solutions</li> <li>• <b>Range of services:</b> The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery).</li> <li>• <b>Duration:</b> Five-year warranty from delivery date.</li> </ul>	Extended warranty for a total of five years from delivery date	1680671

## 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](http://www.sick.com)