OLM100 Hi

High performance in a small housing

LINEAR MEASUREMENT SENSORS

SICK
Sensor Intelligence.

OLM100 Hi

LINEAR MEASUREMENT SENSORS

Technical data overview

Measuring range	0 m … 10,000 m
Reading distance	100 mm ± 20 mm 130 mm ± 20 mm
Repeatability	0.15 mm
Max. movement speed	10 m/s
CANopen	✓
Serial	✓, RS-422
SSI	✓
Output time	1 ms / 5 ms (depending on type)
Light source	LED, red
Ambient temperature operation	–30 °C … +60 °C
Ambient temperature, storage	–40 °C … +75 °C

Product description

The OLM100 Hi is a high performance variant of the well-known OLM100. The strengths of the OLM100 Hi include very high travel speeds, extremely precise repeatability, and an SSI interface for direct feedback into drive.

At a glance

- Highly accurate camera-based bar code positioning system
- Traversing speeds of up to 10 m/s can be achieved
- Wear and maintenance-free thanks to camera technology
- Adjustable resolution as low as 0.1 mm
- Precise positioning up to 10,000 m
- Compact, extremely rugged magnesium housing
- Wide range of interfaces: SSI, RS-422, and CANopen
- Wide operating temperature range from –30 °C to +60 °C

Your benefits

- High travel speed linked to precise positioning increases system efficiency and improves throughput
- Camera-based system with no moving parts increases the sensor's service life, thus reducing lifecycle costs considerably
- Very small housing dimensions combined with the latest industrial interfaces ensure integration into almost any system design, even where space is limited
- Serial interfaces (RS-422, SSI, and CANopen) offer highest flexibility and easiest system integration, hence saving costs for interface converters and protocol adaption
- The large temperature range from –30°C to +60°C offers reliable use in many applications

Fields of application

- Positioning of electrical overhead conveyor vehicles
- Anti-collision monitoring of electrical overhead conveyor vehicles
- Vertical and horizontal positioning of storage and retrieval units
- Positioning of curved-track storage and retrieval units
- Positioning and anti-collision of overhead cranes
- Positioning and anti-collision of shuttles

Ordering information

Other models and accessories ➜ www.sick.com/OLM100_Hi

- **Repeatability:** 0.15 mm
- **Max. movement speed:** 10 m/s
- **Resolution:** 0.1 mm, 1 mm

Reading distance	Output time	Bar code width	Communication interface	Communication Interface detail	Type	Part no.
100 mm ± 20 mm	–	30 mm	SSI	–	OLM100-1201S03	1071962
	1 ms	30 mm	CANopen	–	OLM100-1206	1059271
		SSI	–	OLM100-1201	1053074
	5 ms	30 mm	Serial	RS-422	OLM100-1203	1054170
130 mm ± 20 mm	–	40 mm	SSI	–	OLM100-1251S03	1054733

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**

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