



OLM200

Innovative positioning with fieldbus interfaces

LINEAR MEASUREMENT SENSORS

SICK
Sensor Intelligence.



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	7 m/s
PROFIBUS DP	✓, DPV0
PROFINET	✓
EtherNet/IP™	✓
Output time	2.5 ms
Light source	LED, red
Ambient temperature, operation	-30 °C ... +60 °C
Ambient temperature, storage	-40 °C ... +75 °C

Product description

Linear measurement sensors from SICK can determine an accurate position on product travel paths of up to 10 km in length – along a straight line or curve. The OLM200 combines extreme precision and high travel speeds with fieldbus interfaces. With its many other intelligent details, the OLM200 product family is setting new standards in linear positioning by bar code tape. The output of position data – precise to within 0.15 mm – the speed output, and diagnosis data guarantee an efficient and reliable machine operation. The intelligent design in a rugged magnesium housing includes a sensor that takes account of the required orientation angles. Thus, in contrast to standard sensors, alignment is only necessary in one axis. The OLM200 also has LED lighting. Furthermore, the complete elimination of moving parts offers a high service life and durability – even under challenging ambient conditions.

At a glance

- Highly accurate camera-based bar code positioning system
- Traversing speeds of up to 7 m/s can be achieved
- Wear and maintenance-free thanks to camera technology
- Adjustable resolution as low as 0.1 mm
- Output of position and speed data, as well as pre-failure notifications via fieldbus interfaces
- 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
- Fieldbus interfaces (PROFIBUS, PROFINET, and EtherNet/IP) offer highest flexibility and easiest system integration, hence saving costs for interface converters and protocol adaption
- Status bit for pre-failure notification and preventive maintenance eliminates unpredicted machine downtimes
- 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/OLM200

- **Repeatability:** 0.15 mm
- **Max. movement speed:** 7 m/s
- **Resolution:** 0.1 mm, 1 mm, 10 mm, 100 mm
- **Output time:** 2.5 ms

Reading distance	Barcode width	Communication interface	Communication Interface detail	Type	Part no.
100 mm ± 20 mm	30 mm	EtherNet/IP™	-	OLM200-1008	1058813
		PROFIBUS DP	DPV0	OLM200-1002	1051658
		PROFINET	-	OLM200-1009	1058126
130 mm ± 20 mm	40 mm	PROFIBUS DP	DPV0	OLM200-1052	1051659
		PROFINET	-	OLM200-1059	1094905

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