



OLV

The New Dimension in Non-Contact Length and Speed Measurement

SICK
Sensor Intelligence.



Technical data overview

Reading distance	120 mm ± 5 mm 240 mm ± 10 mm
Serial	✓, RS-232 RS-422 RS-485
Incremental	✓, TTL
Output time	20 ms
Light source	Laser, infrared
Ambient temperature, operation	+10 °C ... +45 °C
Ambient temperature, storage	-25 °C ... +75 °C



Product description

Tactile measuring wheels, measuring rollers or tachometers often cause measuring errors and damage to measured objects due to slippage, vibration, contamination and wear. The compact OLV range of linear measurement sensors from SICK offers an accurate, user-friendly and durable solution for such systems. Your decisive advantage: they provide a non-contact, material-independent measurement. These non-contact, material-independent sensors, which are based on the laser-Doppler principle, deliver a typical measurement accuracy of ± 0.05%. The OLV sensors are lightweight, maintenance-free, permanently calibrated and measure practically any surface or color without parameter reconfiguration.

At a glance

- Non-contact, material-independent length and speed measurement
- Permanently calibrated, maintenance-free measuring system
- Measurement accuracy of up to ± 0.05 % (depends on total measuring length)
- Sensing range: 120 mm (optional 240 mm)
- Compact dimensions: 167 mm x 94 mm x 39 mm (l x w x h)
- Rugged aluminum housing
- Weight: approx. 1 kg
- Quick configuration and plug and play commissioning

Your benefits

- Non-contact measurement ensures high level of repeatability
- Process and quality optimization thanks to precise speed and material detection
- Significant reduction in material costs due to non-slip cutting control
- High degree of flexibility thanks to material-independent measurement
- Cost-effective solutions with an attractive price-performance ratio
- User-friendly process integration using configurable multifunctional interface
- Easy replacement of existing mechanical systems
- The maintenance-free, non-contact measuring system significantly reduces maintenance costs

Fields of application

- Precise length measurement for continuously processed materials
- Cutting and shearing control for continuously processed materials
- Non-contact speed monitoring and control in production process
- Length and speed measurements in high temperature process areas
- Slip detection and synchronization
- Calibration of electrical drives and encoders
- Measurement and synchronization of differential velocities

Ordering information

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

- **Output time:** 20 ms
- **Communication interface:** Serial, Incremental

Reading distance	Type	Part no.
120 mm ± 5 mm	OLV40-11134	6049093
240 mm ± 10 mm	OLV80-11234	6049092

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