SICK.COM

LASER DISTANCE SENSORS

OD200

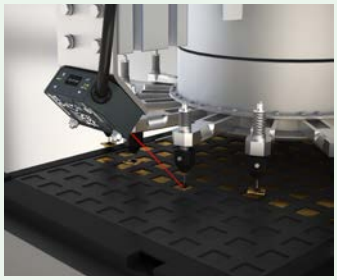
SICK Sensor Intelligence

OD200
EASY TO USE. HARD TO BEAT.

The compact OD200 displacement sensor delivers precise micrometer-range distance measurements — even on challenging surfaces like structured composites or shiny metals — without the need for a separate amplifier. Its compact housing, wide measuring range, and intelligent signal processing make it ideal for tight spaces and tough environments. Designed for flexibility across various applications, the OD200 is easy to integrate and configure thanks to its plug-and-play setup and smart factory settings, making it a powerful, stand-alone solution for boosting productivity.

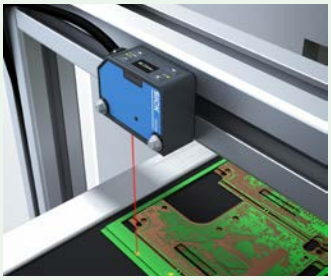
OD200 — Precision measurement and fast response for industrial automation.

APPLICATIONS



Semiconductor - Detection of glossy IC chips

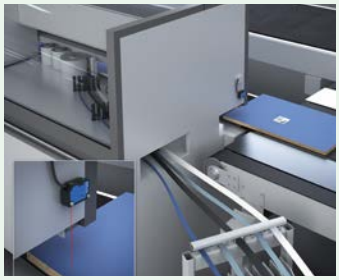
Electronics - Positioning dispensing needles with precision



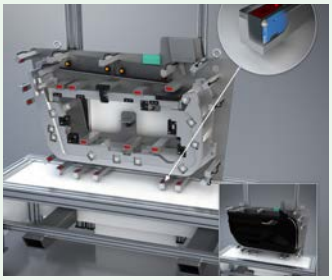
Electronics - Non-contact double layer detection of printed circuit boards

Consumer goods - Height positioning and focus control of print head.

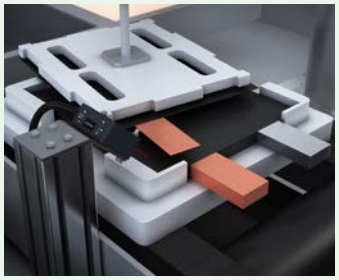
Machines - Height positioning and collision awareness at the cutting head



Machines - Measurement of board thickness



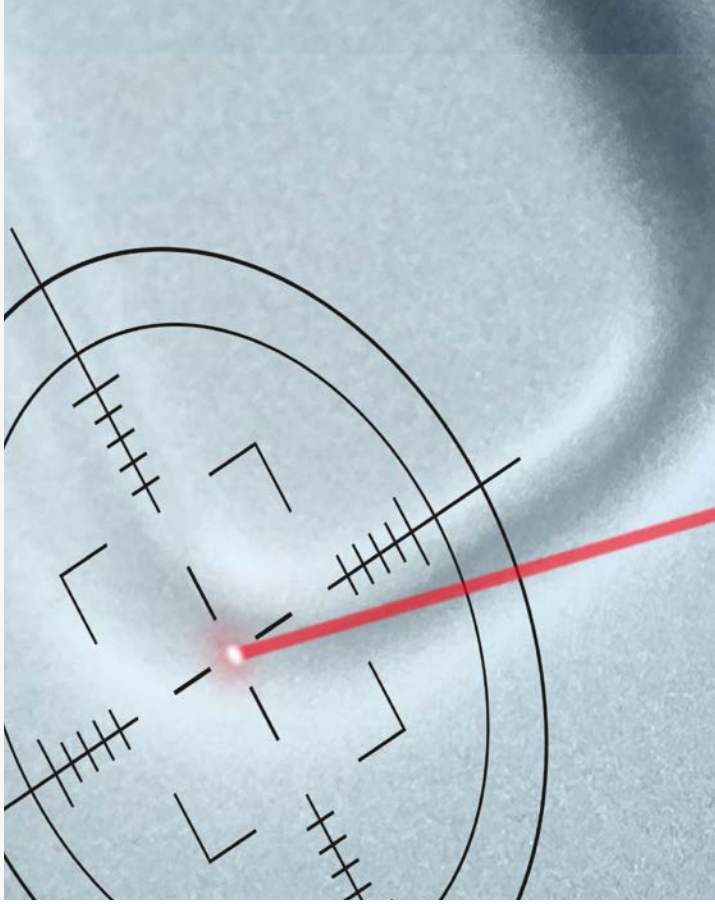
Automotive - Distance measurement for quality inspection



Battery - Measuring the cell stack height

RELIABLE MEASUREMENT, NO COMPROMISES

- → Repeatability: 2 µm ... 20 µm
- → Linearity: ± 10 µm ... 100 µm
- → Measuring frequency: up to 3 kHz
- → Intuitive configuration via OLED display, IO-Link and SOPAS ET
- → Measuring ranges from 25 mm to 400 mm*
- → Laser class 1
- → Analogue and digital output with IO-Link interface
- → Robust miniature housing



PRODUCT INFORMATION

- → Communication interface: IO-Link
- → Digital output: 1 x PNP/NPN, selectable
- → Type of analog output: Current output / voltage output
- → Laser class: 1
- → Housing material: metal
- → Connection type: cable with plug M12, 5-pin, 345 mm

https://sick.com/OD200

KEY BENEFITS

- → Consistent high-quality measurements – regardless of the target
- → Reliable measurement on structured, deep black and glossy surfaces thanks to a high-performance optical system and improved signal processing
- → High measurement frequency designed for applications needing speed
- → Smart factory settings and intuitive interfaces allow for easy configuration and integration
- → Particularly economical to use thanks to high performance and comparatively low acquisition costs
- → Reliable performance in challenging ambient lighting
- → Fast IO-Link integration with SOPAS software

Measuring range	Linearity	Typ. light spot size (distance)	Type	Part Number
25 mm ... 35 mm	± 10 µm	200 µm x 500 µm (30 mm	OD200-0301W15	6086978
35 mm ... 65 mm	± 30 µm	300 µm x 700 µm (50 mm)	OD200-0501W15	6086980
60 mm ... 160 mm	± 100 µm	500 µm x 1,600 µm (110 mm)	OD200-1101W15	6086982
80 mm ... 400 mm*	-	-	OD200-2401W15	6086984

*AVAILABLE IN 2026

SICK AG
WALDKIRCH
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SICK AT A GLANCE

SICK is a globally leading company in intelligent sensors and sensor solutions. With over 10,000 employees, more than 60 subsidiaries and equity investments as well as numerous agencies worldwide, SICK is always close to its customers.

With a unique range of products and services for factory and logistics automation, SICK creates added value along the entire value chain of its customers. In addition, SICK brings extensive industry and application experience as well as a deep understanding of its customers' processes and requirements.

Partnering for the better, optimizing productivity, elevating quality, and protecting health and safety – this is what SICK stands for.

THAT IS "SENSOR INTELLIGENCE".

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