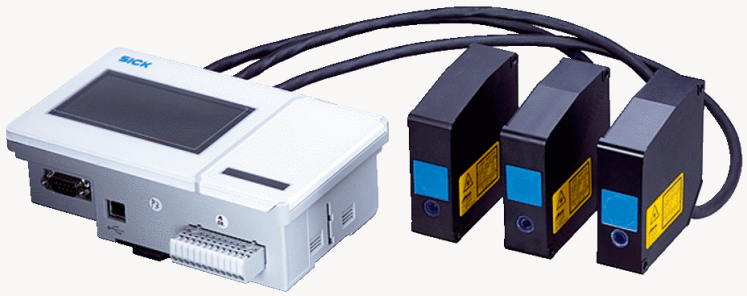
SICK.COM





PRODUCT OVERVIEW

OD Precision

Laser distance sensors

SICK Sensor Intelligence



DISPLACEMENT SENSORS

OD Precision

Precise optical displacement sensors for distances up to 700 mm

The OD Precision is a high accuracy, optical measuring system for measuring difficult object surfaces. In addition to glossy and dark black surfaces, it can also measure transparent and semi-transparent materials. The OD Precision is the only displacement measurement sensor that can connect three sensors to one controller, which reduces the amount of hardware required and makes it easier to measure the x-, y- and z-axes., e.g. for measuring the evenness of surfaces. In order to reduce investment costs, the sensor can also be operated via RS-422, thus eliminating the need for a controller unit.

OD Precision AT A GLANCE

BENEFITS

- Non-contact measurement improves quality inspection during production
- Surface-independent measurement algorithms ensure minimum machine downtime, regardless of surface gloss or color
- Reduced processing times as a result of the high measuring frequency of up to 10 kHz
- Simple, cost-effective solution for challenging measuring tasks due to a variety of sensor models
- Optional stand-alone operation via RS-422 means the OD Precision offers maximum performance at lower investment costs
- High visibility LC display enables simple, cost-effective setup
- Many interfaces for simple integration into an existing production environment

FEATURES

- Numerous measuring ranges from 24 mm ... 26 mm to 300 mm ... 700 mm
- CMOS receiving element for measurement independent of surface
- Maximum measurement accuracy and frequency
- Glass thickness measurement with just one sensor head
- Various light spot sizes
- Integrated calculations for up to three sensors
- Stand-alone use via RS-422

TECHNICAL DATA OVERVIEW

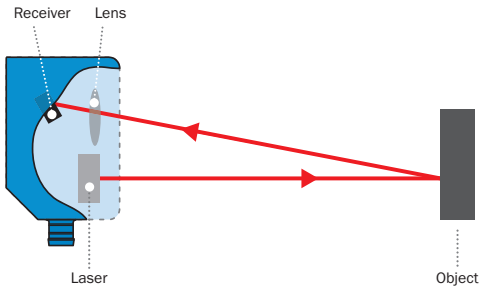
Communication interface	Serial
Sensing distance	700 mm 24 mm
Measuring range	700 mm 24 mm
Laser class	1 2
Typ. light spot size (distance)	25 µm x 35 µm (25 mm) 100 µm x 700 µm (25 mm) 30 µm x 100 µm (30 mm) 260 µm x 1.000 µm (30 mm) 70 µm x 290 µm (85 mm) Ø 180 µm (150 mm) 700 µm x 2.400 µm (350 mm) 1.000 µm x 3.700 µm (500 mm)
Connection type	Cable with male connector
Housing material	Metal

ADVANTAGES

Precision meets quality

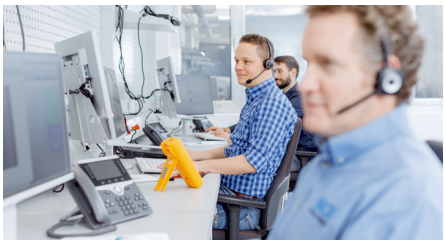
With expert-developed intelligent measurement technology which proves its worth in industrial applications time and time again, SICK offers the solution to any challenge which demands maximum measurement accuracy and quality. A pioneering spirit founded on our years of experience and our own innovations in optical sensor technology. We ensure efficient processes while fulfilling the demands of even complex measuring tasks – regardless of surface, diameter, thickness, or width, and regardless of whether an object is to be positioned or measured. This is how we ensure that your products are every bit as perfect as you want them to be. Moreover, SICK's measurement technology supports quality assurance processes and delivers cost-saving benefits. Have a look on <a href=https://www.sick.com/measurement-sensors target="_blank">www.sick.com/measurement-sensors

A point of light is projected onto the measuring object. The light reflected is captured by a light-sensitive receiver at a specific angle. Based on the angle between the send and receive direction, the position of the object is then triangulated (from the Latin “triangulum” = triangle).



SICK LifeTime Services

SICK’s services increase machine and plant productivity, enhance the safety of people all over the world, provide a solid foundation for a sustainable business operation, and protect investment goods. In addition to its usual consulting services, SICK provides direct on-site support during the conceptual design and commissioning phases as well as during operation.
The range of services not only covers aspects like maintenance and inspection, but also includes performance checks as well as upgrades and retrofits. Modular or customized service contracts extend the service life of plants and therefore increase their availability. If faults occur or limit values are exceeded, these are detected at all times by the corresponding sensors and systems.



Consulting and design
Application-specific advice on the product, its integration and the application itself.



Commissioning and maintenance
Application-optimized and sustainable – thanks to professional commissioning and maintenance by a trained SICK service technician.



Service contracts
Extended warranty, SICK Remote Service, 24-hour helpdesk, maintenance, availability guarantees and other modular components can be individually combined on request.

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.
www.sick.com/OD_Precision

SICK AG
WALDKIRCH
GERMANY
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

SICK

Sensor Intelligence