SICK.COM





PRODUCT OVERVIEW

OD1000

Laser distance sensors

SICK Sensor Intelligence



DISPLACEMENT SENSORS

OD1000

Optical displacement sensor with high linearity for distances up to 1,000 mm

With its sensing range of up to 1 m, the OD1000 displacement measurement sensor sets new standards in precise distance measurement with triangulation. Its high performance data ensures a smooth production process and allows a high level of productivity in a wide range of applications, almost regardless of the surface quality, color, or object structure. The clear OLED display with four operating keys simplifies commissioning and optimizes the machine availability. As a standalone device with integrated evaluation, IO-Link interface, and additional functions, the OD1000 simplifies machine integration, saves additional evaluation effort, and paves the way for sustainable production.

OD1000 AT A GLANCE

BENEFITS

- Optimization of the process quality due to high precision and linearity over the entire measuring range
- Quick commissioning due to variable mounting and innovative operating concept
- Simple and cost-saving integration via OLED display and IO-Link interface
- Suitable for harsh ambient condition due to rugged metal housing
- High machine availability thanks to reliable, quick, and precise measurement results on a wide range of surfaces
- Intelligent measured value filter and analysis algorithm for safe and stable measurement in every application

FEATURES

- Large measuring range of up to 1 m
- Simple setting via OLED display or SOPAS configuration software
- Standalone device without external amplifier unit
- Rugged metal housing
- Adjustable analog output (mA/V) and push-pull digital output with IO-Link
- Precise measurement regardless of color or surface
- Versatile mounting possibilities

TECHNICAL DATA OVERVIEW

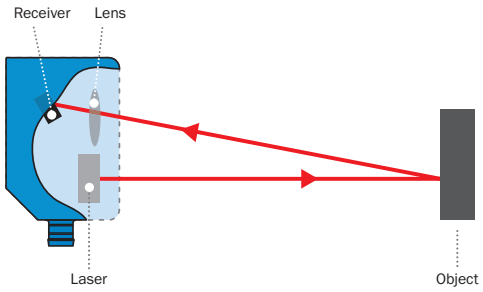
Communication interface	IO-Link
Sensing distance	1,000 mm 200 mm
Measuring range	1,000 mm 200 mm
Typ. light spot size (distance)	1.5 mm x 1.5 mm (1.000 mm)
Connection type	Cable with plug M12, 5-pin
Housing material	Metal

ADVANTAGES

Precision meets quality

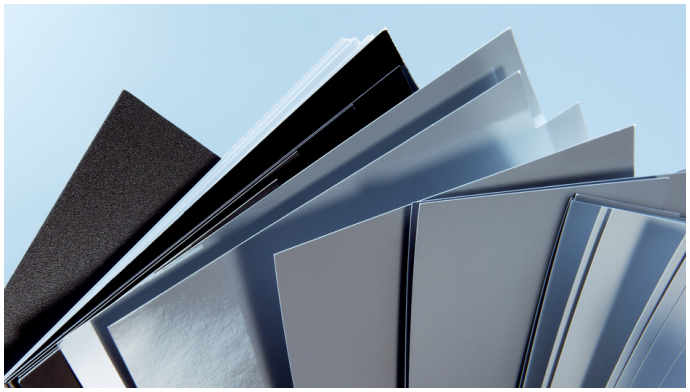
With expert-developed intelligent measurement technology which proves its worth in industrial applications time and time again, SICK offers the solution to any challenge which demands maximum measurement accuracy and quality. A pioneering spirit founded on our years of experience and our own innovations 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).





With its sensing range of up to 1 m, the OD1000 displacement measurement sensor sets new standards in precise distance measurement with triangulation. Its high performance ensures a smooth production process and allows a high level of productivity in a wide range of applications, almost regardless of the surface quality, color, or object structure. The clear OLED display with four operating keys simplifies commissioning and optimizes the machine availability. As a standalone device with integrated evaluation, IO-Link interface and additional functions, the OD1000 simplifies machine integration, saves additional evaluation effort, and is therefore a good investment in efficient production processes.



Edge height jump
Enables quick counting of measured value jumps, e.g. when counting copies in the printing industry or joint detection during vulcanization in tire production.



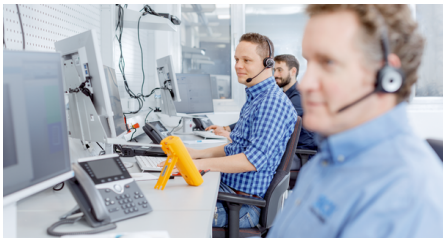
Distance range
Enables the blanking of certain areas, e.g. of a protective screen between the sensor and the object.

→ Consistent, high product quality thanks to precise, optical distance measurement regardless of the surface quality, color or object structure.

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/OD1000

SICK AG
WALDKIRCH
GERMANY
SICK.COM

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