SICK.COM





PRODUCT OVERVIEW

Dx100

Laser distance sensors

SICK Sensor Intelligence



TIME-OF-FLIGHT SENSORS

Dx100

Optical distance sensors for precise positioning tasks up to 300 m

The Dx100 family combines leading edge technology with innovative design. The product's phase-shift measurement technology ensures the highest performance, which, in co-operation with drives manufacturers, has been optimized for perfect integration into closed control loops. Our innovative 3-axis bracket, the smallest housing in its sensor class, as well as the intelligent quick lock system with fast connectors, offers optimized handling and reduced costs of ownership.

Dx100 AT A GLANCE

BENEFITS

- Enhanced closed-loop behavior offers highest performance and productivity
- Operating temperature down to –40 °C ensures the highest reliability in cold storage warehouses and freezers (dependent on type)
- Numerous fieldbus and Ethernet-based interfaces offer the highest flexibility and fast communication for maximum efficiency
- Pre-failure and extensive diagnostic data allow for preventive maintenance, ensuring the highest machine uptime
- Small, rugged metal housing and SpeedCon™ compatible connectors ensure hassle-free installation – even in confined spaces
- 3-axis alignment bracket ensures fast alignment and easy exchange, reducing maintenance and setup costs
- Numerous accessories allow flexible use and guarantee high operation functionality

FEATURES

- Measuring range up to 300 m (dependent on type)
- Numerous fieldbus interfaces
- Pre-failure notification and diagnostic data available
- Display with intuitive menu and easy to see status LEDs
- Small, rugged metal housing
- 3-axis alignment bracket with quick lock system available as accessory
- Elongated holes for zero point adjustment when replacing devices

TECHNICAL DATA OVERVIEW

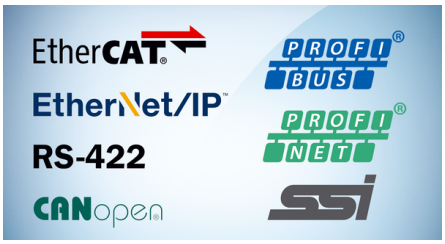
Measuring range	0.15 m ... 300 m
Laser class	2
Communication interface	CANopen EtherCAT® EtherNet/IP™ PROFIBUS DP PROFINET Serial SSI
Connection type	Male connector M12
Housing material	Metal

ADVANTAGES



Dx100 Pro - flawless distance sensors for precise positioning tasks

When positioning automated storage and retrieval systems, automated parking systems, cranes and countless other moving system parts, the speed and low downtime, in addition to the accuracy and repeatability, are key. The DL100 long range distance sensor is not only the smallest sensor in its performance class, but was also developed specially for the highest drive speeds and rapid processing of signals in dynamic control circuits. DL100 devices are also predictive and send timely information to the control system if, for example, maintenance is required to due contamination. Countless interfaces and an innovative mounting concept improve the top performance of these sensors even further.







Additional product highlights

- SSI and PROFINET united: The combination of the SSI and PROFINET interfaces in one device offers countless benefits and extended application possibilities: **DL100-2xxx2213**.
- PROFINET netload class III: Thanks to PROFINET netload class III, the DL100 guarantees maximum reliability and durability - even at very high network utilization: **DL100-2xxx2212** and **DL100-2xxx2213**.
- Variants with spectral filter and frequency switching: No minimum distance required during installation of several DL100 devices next to one another or in the arrangement between DL100 devices and ISD400 Pro optical data transmission.

Much smaller than comparable distance sensors

The housing of the Dx100 long range distance sensors measures only 119.9 mm x 82.5 mm x 69.4 mm. This makes them the smallest distance sensors in their performance class. They impress with new installation options, low weight and easy handling during mounting.

Innovative mounting system for easy mounting and quick device exchange

(1) Clip device into tailor-made plate.
(2) Fasten with black fixing screw.
(3) Fine adjustment using 3 spring-loaded screws.

→ Maximum performance and innovative product features ensure extreme flexibility and maximum system productivity.



DL100 and ISD400 Pro - a powerful team for distance measurement and data transmission

The dynamic nature of state-of-the-art automated storage and retrieval systems and countless other applications not only demands fast and accurate positioning, but also effective communication with the stationary control technology. SICK offers a solution which is up to the challenge: The DL100 long range distance sensor in conjunction with the ISD400 Pro optical data transmission system.

→ A combination of economic efficiency and value creation: Both the DL100 and the ISD400 Pro are quick and easy to integrate in your plant, making them a well-coordinated and virtually unbeatable team. Both feature numerous diagnostics options which minimize downtimes while also optimizing system productivity.

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/Dx100

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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.

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Sensor Intelligence