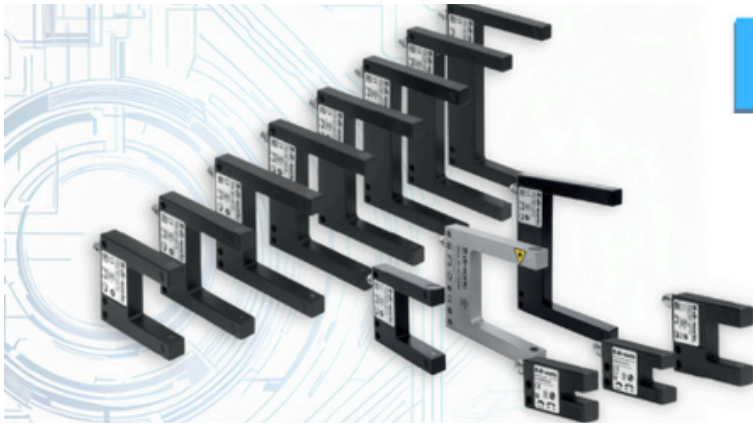


# ON THE BLOG



## DI-SORIC OPTICAL SENSORS

*"Innovative solutions for future applications."*

The optical sensors are electric devices, that are using light to detect and measure the environmental changes. The optical sensors have several advantages over the traditional sensors, including the extreme sensitivity, fast reaction time and the resilience against electromagnetic interferences. As a result, they are widely used in industrial automation, environmental monitoring, medical diagnostics, and consumer electronics.

The di-soric is a company based in Germany, specializing in the manufacture of optical sensors and detectors.

The products, they offer, include photo-electric sensors, optical sensors, distance sensors, color sensors, vision sensors, fibre-optic sensors, and optical label sensors.

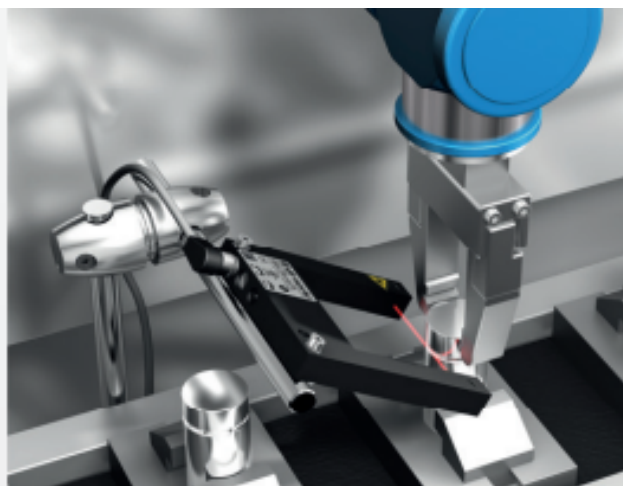
di-soric's optical sensors became popular for their high quality and reliability. In addition, they also have a wide range of applications in the industry, including automobile industry, electronics manufacturing, food industry, healthcare, and construction industry.

## HIGH QUALITY AND RELIABILITY

They are generally used in material handling and automation, including the monitoring of production process and detection of components' presence and position.

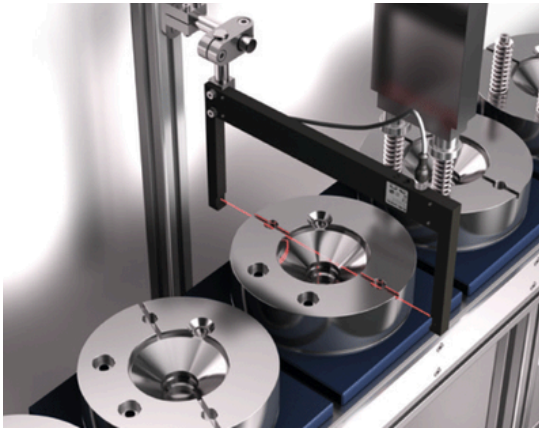
The di-soric sensors are designed to meet the 4.0 requirement of the industry and measure with high precision and stability.

One of the most popular di-soric products are the optic sensors, which include photoelectric fork sensors too.



## THE MOST POPULAR DI-SORIC PRODUCT

An optical photo-electric sensor usually consists of two main parts: the infra-red light emitting LED light bulb and the phototransistor that detects it. When an object passes through the infra-red light emitted by the sensor, the phototransistor detects the decrease in light and sends a signal to the control unit.



di-soric IO-Link sensor is a highly efficient, intelligent light barrier sensor, that provides reliable and precise measurement results in a wide variety of applications. IO-Link is an global communication standard, that enables sensors and actuators to work together in order to optimise production lines and processes.

Via IO-Link communication the exact value measure by the sensor can be queried, and in certain types even the temperature is observable.

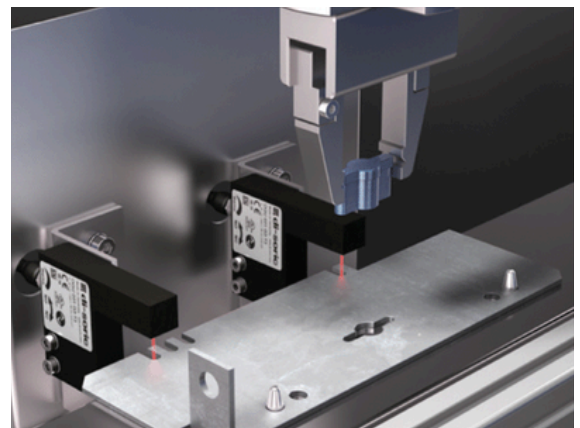
It is able to adapt to various applications and environmental conditions. The sensor provides high-speed measuring performance, which enables the fast and reliable detection of any object.

## FOR FUTURE APPLICATIONS WITH VARIOUS SOLUTIONS

di-soric optical sensors are available in several designs: framed, angled, in shape of a ring, a fork and with fibre optics. These sensors are capable of reliably detecting, measuring, and testing even the smallest components, also in challenging environmental conditions (highly polluted environment, smoke, dust, high temperature).

Optoelectronic switch sensors detect the desired object or component based on various principles.

The sensors are suitable for accurate measurement of position, distance, colour, contrast and size. They are used as limit value switches with digital output, and with analog output for control and evaluation purposes in engineering applications.

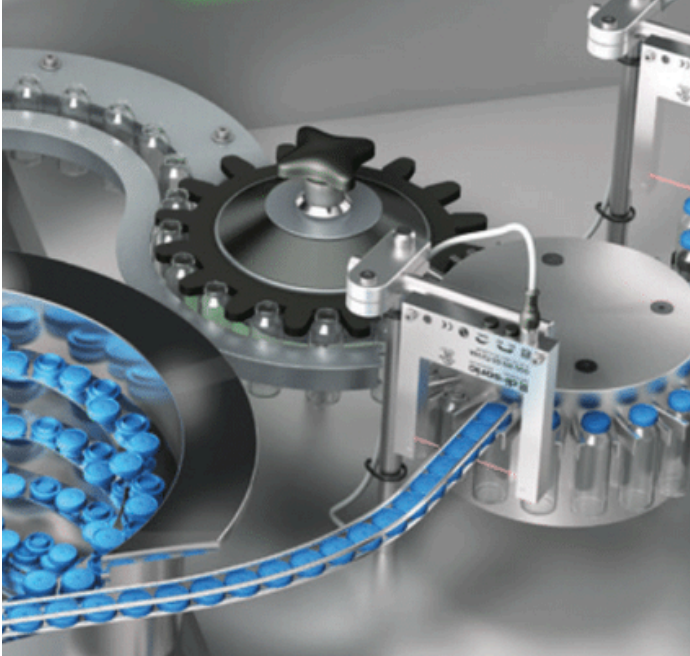


## IO-LINK TECHNOLOGY

The sensor adapts to various sizes and equipment, and safely detects all types of materials, including also reflective and transparent materials.



The unique design of the sensor ensures high-quality and reliable measurement performance. The sensor is easily configurable for application and environmental conditions. Furthermore, di-soric's advanced diagnostic capabilities enables quick and efficient fault detection.



IO-Link technology enables the seamless integration of di-soric light curtains into industrial networks and facilitates simple configuration and diagnostics of sensors.

IO-Link ensures the real-time communication for sensors, facilitating precise and rapid data transfer within the industrial automation systems.



IO-Link technology is continuously evolving, offering further advantages in the field of industrial automation. Intelligent connection of the sensors and actuators into industrial networks enables faster and simpler data transfer, improving the efficiency and reliability of any process.

THE USE OF IO-LINK TECHNOLOGY IN INDUSTRIAL AUTOMATION IS BECOMING INCREASINGLY WIDESPREAD.



CONNECTING SENSORS TO THE INNOVATIVE APPLICATIONS OF THE FUTURE

