

# Sensors

for automation technology

- optical
- magnetic
- inductive
- capacitive



Produkt+Service



Meyer Industrie-Electronic GmbH - MEYLE acquired the assets of Beta SENSORIK in 2022 and hereby expands the existing MEYLE range of sensors with more than 25 years know-how of Beta Sensorik products and services.

[www.betasensorik.de](http://www.betasensorik.de)  
[www.betasensorik.biz](http://www.betasensorik.biz)  
[www.meyle.de](http://www.meyle.de)

Meyer Industrie-Electronic GmbH – MEYLE

Carl-Bosch-Straße 8 Tel.: +49 (0)5481-9385-0 Internet: [www.meyle.de](http://www.meyle.de)  
49525 Lengerich/Germany Fax: +49 (0)5481-9385-12 E-Mail: [sales@meyle.de](mailto:sales@meyle.de)

**beta**  
**SENSORIK**

1965-2020  
55 Jahre

**MEYLE**®



beta SENSORIK is a company that has been developing, manufacturing and marketing high-tech sensor products for industry for over 25 years. The company has specialized in particular in the field of miniature optical sensors. In addition to the world's smallest light barriers without fiber optics, beta SENSORIK offers extensive sensor solutions for industrial automation.

A particular specialty of beta SENSORIK is the development of customized special solutions. If the consultation reveals that a required sensor or sensor system is not available, customer-specific sensor development in the laboratory can also be offered. Thanks to the long-standing and proven cooperation with qualified production companies in the areas of precision mechanics and microelectronics, the complete service from problem analysis to the finished end product from a single source has become possible for the customer. This enables us to optimally adapt our products to the requirements of our customers.

Meyer Industrie-Electronic GmbH - MEYLE acquired the assets of Beta SENSORIK GmbH on Feb. 01, 2022. MEYLE is hereby expanding the existing range of sensors with more than 25 years know-how of Beta Sensorik products and services.

The range of services also includes the implementation of complete risk assessments in accordance with the applicable Machinery Directive. In concrete terms, this means that beta SENSORIK supports machine builders in terms of safety when planning machines and systems by carrying out appropriate tests and measurements and creating documentation up to the EU declaration of conformity ready to be signed. A service that is gladly used given the large number of standards in mechanical and plant engineering.

## Service

We support you in the development of customer-specific special solutions!



## Optical solutions for the industrial automation

The sensor and safety product range from beta SENSORIK is geared towards customer applications in automation, especially in the areas of processing and packaging as well as for automatic material handling systems in manufacturing industries, such as in the automotive, electronics, pharmaceuticals and food sectors & Beverages, Paper & Printing, Woodworking, Ceramics, Glass, Textile, etc.

### Universal sensors

with light or laser in all common designs

### Color and contrast sensors

for quick and reliable color and contrast detection

### Luminescence sensors

best solution for capturing fluorescent markings

### Laser distance sensors

for precise distance measurement

### Measuring light grids

for detecting, measuring or determining the position of objects

### Forked light barriers

for quick and easy installation

### Frame light barriers

for counting and monitoring tasks



## Miniature optosensors

Smallest fiber optic light barriers and light scanners in the world!



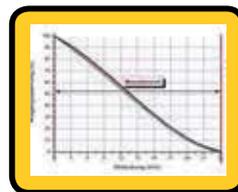
No fiber optics!  
Super flexible!

- ▶ Size from Ø 2 mm
- ▶ Highly flexible sensor cable for the highest dynamic alternating loads
- ▶ Long reach and sensing range
- ▶ Sensitivity adjustable via "Teach In"
- ▶ Excellent replacement for fiber optics, no more problems with fiber optic breakage



## Amplifier

Sensitivity adjustable via teach-in or manually via button. In addition to light/dark switching and switchable pulse stretching, there are variants with switching or analog outputs.



Various designs, ranges and resolutions available



## Sensors: inductive, magnetic and capacitive

Millions of inductive, magnetic and capacitive sensors are used as reliable solutions in almost all areas and branches of industry. Due to their different housing shapes and sizes, they are suitable for a wide range of applications. The high processing quality of our sensors ensures a long service life and high switching accuracy.



### Inductive sensors

High-performance series with increased switching distances  
Size from Ø 3 mm  
all-metal sensors  
high temperature sensors  
High pressure resistant sensors  
Sensors with analogue output  
ring sensors



### Magnetic sensors

Damping by permanent magnet  
Switching distances up to 120 mm  
Choice of 3-wire PNP closer or Namur versions with integrated pulse stretching

### Capacitive sensors

With capacitive sensors, both conductive and non-conductive materials can be detected. Capacitive sensors are used to detect materials such as plastic, paper, wood, glass, liquids, etc. Like the inductive sensors, they work without contact. The extreme immunity to interference of our sensors enables high system availability.

### Cylinder sensors

with practice-optimized fastening technology





## Fully electronic sensor buttons and multi-LED displays

Multi LED displays  
 Clear operating status display  
 Red-green-blue or red-green-yellow  
 Three independent 15-30 V inputs  
 7 colors adjustable with one device  
 All housings V2A or V4A

**Intelligent buttons**  
 100% without moving parts  
 PNP or NPN switching output  
 Up to 2 external inputs  
 Dynamic, static or latching  
 Touch or pressure-triggering  
 Different housing options  
 Different connection variants  
 All housings V2A or V4A V4A



## KSE - Contactless signal and energy transmission

With KSE couplers, sensor signals can be transmitted from a mobile unit to a stationary unit without contact. At the same time, the connected sensors or actuators are also supplied with power without contact.



### Advantages:

- ▶ wear-free construction
- ▶ cable-break-proof transmission
- ▶ high interference immunity and mobility on moving machines
- ▶ high mechanical robustness, even in harsh environments
- ▶ quick start-up with changin tool carriers
- ▶ Reduced installation and maintenance costs
- ▶ Connection of different signal types

## modul-LED® system

### Robust and flexible: Powerful LED lights for machines and laboratory workstations

The LED machine lights are versatile and robust LED lights for industrial use with changing and demanding requirement profiles. They are typically used in the printing industry, packaging industry, tool industry, automation technology, industrial image processing (machine vision), metal processing, measurement technology and wood processing.



- ▶ Energy-saving, efficient and therefore environmentally friendly LED lighting technology
- ▶ Also suitable for extreme conditions (IP67)
- ▶ The innovative "modul-LED" system enables the free selection of different light sources
- ▶ Simple and uncomplicated replacement of the LED module
- ▶ Insensitive to vibrations
- ▶ No heat development in the direction of the light
- ▶ Homogeneous and flicker-free illumination