

Electronic magnetic sensors

Magnetic proximity sensors from beta SENSORIK are particularly characterized by very high switching distances with small designs.

They detect magnetic objects (e.g. permanent magnets) that are used to trigger the switching process.

The range of applications is large.

Wherever technical conditions require a high switching distance, our magnetic proximity sensors offer a reliable solution.

Since the magnetic fields of the permanent magnets used penetrate all non-magnetizable materials, the position can be detected without any problems through materials such as stainless steel, aluminium, non-ferrous metal, plastic or glass.

An important application example is the use in the pig query*.

For pipelines with low material flow and thus small pipe diameters, it is important to reliably detect small pigs and therefore also small magnets with low field strength.

However, this is not a problem for our magnetic sensors with high switching distances.

Our models with integrated pulse lengthening are used to query fast-moving pigs.

The signal can thus be reliably recorded by the subsequent PLC.

* Pigging is the process of pushing out the contents of a pipe with the help of a fitting body (pig).

The pig is pushed through the pipeline with a gas or a liquid.

The position of the pig must be recognized for automatic process control. For this purpose, there is a permanent magnet in the pig, which can be detected by magnetic sensors.



Application magnetic sensor in pigging technology:

Pigging technology is used i.e. in most areas of the food industry. Among other things, hygienic pigging systems have a simple geometry and a flow-optimized design.

Application Photo:
Kieselmann



Ideal for the pigging technology* ...

- **All-metal sensor**
- **PNP 3-wire or NAMUR ATEX II 2 G, Ex Zone 1**
- **Switching distances up to 120 mm**
- **Versions with pulse stretching**

Special sensors

For the high temperature range

Due to its special design with a switching amplifier separated from the sensor, the M90A-BM10CA is suitable for applications in the high-temperature range up to 175°C.



Absolutely tight

The M3V-A8A magnetic cylinder sensor is ideal for applications in the food industry. The stainless steel housing and the high protection class IP69K guarantee absolute tightness even with frequent cleaning process

Fully electronic cylinder switch

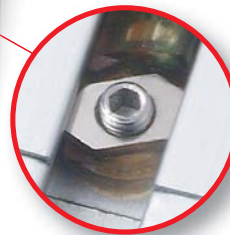
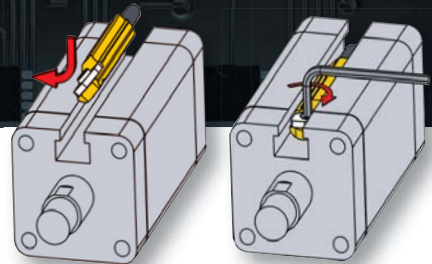
...at the most attractive price!

- ▶ For all common short-stroke cylinders with a T-slot
- ▶ High response sensitivity
- ▶ High switching frequency
- ▶ Insensitive to shock
- ▶ Bounce-free switching output
- ▶ Exact switching point query
- ▶ Practice-optimized attachment with spring washer, screw and thread made of metal



with practice-optimized fastening technolog

▶ Can be inserted into the T-slot from above



Thanks to the tension-free attachment, the sensor cannot be destroyed by over-tightening the screw.

On February 1st, 2022 Meyer Industrie-Electronic GmbH-MEYLE buys the assets production, warehouse, customer and supplier relations and the internet and e-mail domains of Beta SENSORIK GmbH. MEYLE is hereby expanding the existing range of sensors with more than 25 years know-how of Beta Sensorik products and services such as:

- inductive, capacitive and magnetic sensors
- optical miniature, universal and special sensors
- Laser sensors
- Fork and frame light barriers
- Safety light curtains and measuring light grids
- Ultrasonic sensors
- contactless transmission systems
- Machine safety through inspection of protective devices according to BetrSichV
- Support for initial commissioning and regular testing of electro-sensitive protective equipment (ESPE)

We are looking forward to offer Beta SENSORIK customers and our existing customers a wide range of sensor technology, machine safety services, as well as our engineering solutions, own MEYLE products and a wide range of systems << and components for automation, drive and instrumentation technologies.

www.betasensorik.de

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