

Electronic Magnetic Sensors Standard range



Product features

- Metric types: M05 – M18
- Special types: Ø 4 mm/Ø 6 mm, rectangular
- Sensing distance: 2 mm – 45 mm
- Switching function: NO contact, NC contact, Bistable
- Enclosure material: Stainless steel, brass, plastic

Good to know ...

BERNSTEIN offers electronic speed sensors. These detect ferromagnetic gears with a switching frequency of up to 20kHz and do not require an actuating magnet.

Options

- Cable and connector assembly
- The enclosures can be adapted
- Product adaptations and modifications
- Customized development

Electronic magnetic switches with magnetoresistive or Hall elements are ideal for use in different applications due to their special properties. They are insensitive to shock, impact, vibration and wear. High switching frequencies, large switching distances, a wide temperature range and very good reproducibility are also among the advantages of this technology.

Advantages of electronic magnetic sensors over electromechanical reed contacts are:

- Reliable and insensitive to vibrations
- Bounce-free switching
- Unlimited life
- High repetition accuracy
- Fast response times
- High sensitivity
- Temperature stability

Standard programme magnetoresistive

Magnetoresistive sensors are about 10 times more sensitive than sensors with the Hall effect. They can not only be very small, but they can also detect particularly low field strengths.

At the same time, they are characterised by a high measuring accuracy - even at high ambient temperatures - a special reliability and a small space requirement. In addition, they are in principle, polarity independent, so that the counter magnet does not have to be mounted pole-oriented.

Magnet	Dimensions	Article number	Sn for Hall sensors	Sn for magnetoresistive sensors
T 75	Ø 5 mm	6301175057	5 mm	10 mm
T 06	Ø 6 mm	6301106065	5 mm	15 mm
T 61	Ø 20 mm	6301261035	10 mm	35 mm
T 62	Ø 23 mm	6301262039	17 mm	45 mm
T 67	Ø 20 mm	6301167054	15 mm	40 mm
T 69	Ø 31 mm	6301269031	20 mm	60 mm