SENSOR MAGNET JOINED IN A SLEEVE

INNOVATIVE TECHNOLOGY FOR EFFICIENT PRODUCTION

Permanent magnets are used in many sensor applications as signal transmitters for Hall sensors and/or magnetoresistive sensors. The magnetic fields are relatively low, so that external magnetic interference fields could lead to incorrect measurement results. In such cases, magnetic shielding is beneficial.

Advantages/Benefits
- Magnetic shielding
- Tight tolerances
- Compact installation space due to the use of highly remanent magnetic material
- No adhesive bonds, so no adhesive gaps and therefore less imbalance
- More cost-effective production because the complete assembly “magnet joined in a sleeve” can be produced in a single step
- Low use of magnetic material since wall thicknesses of up to 1.5 mm can be implemented
- Speeds of more than 50,000 rpm are possible (burst protection)
- Precise magnetisation
- Magnetic alloy without dysprosium

Applications
A typical application of magnetic field sensors is the contact-free detection of position, rotation and speed. Permanent magnets with special geometry and magnetisation are used as magnetic signal transmitters.

Technical data
- Material designation NdFeB 72/70 pw | 65/70 pw | 65/85 pw
- Isotropic
- Typical remanence of 700 mT
- Multi-pole magnetisation possible at the inside diameter
- Binding agent approx. 2% epoxy
BECAUSE OUR AREAS OF EXPERTISE ARE INTERLINKED

IDEAS TRANSFORM INTO A SUCCESS STORY FOR YOU

The requirements expected of permanent magnets and magnet assemblies are becoming ever more individual and, at the same time, ever more complex. We therefore take pleasure in casting light on the entire value-added chain: We are there beside you as a dependable partner, all the way from shared product development to on-schedule delivery. With our unique linked chain of areas of expertise, we can act as a specialist and as an all-rounder, depending on what is required, as a one-stop shop for high-quality processes. Together, we can transform a good idea into a genuine competitive advantage. After all, for you, the perfect amalgam of experience, expertise and technical implementation means, above all, one thing – efficiency. This creates results that firmly embed success in your products.

THE POWER OF THE WHOLE

MS-Schramberg has stood for solution expertise and quality for more than half a century. We are one of Europe’s leading manufacturers of permanent magnets and assemblies. With around 600 employees, we develop and produce customer-specific articles in three plants in the Black Forest, which are used successfully by companies from a wide range of industries worldwide.