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Encoded Hall linear/angular position sensor



These sensors include a number of active Hall-effect switches and an encoded magnet.

With n switches and n -bit encoding, it is possible to detect 2^n positions. A multi-switch sensor has at least n binary outputs.

Electricfil solution - ready technologies

Characteristics

- Stroke up to 40 mm and angles up to 70°
- Encoding on up to 9 bits
- Temperatures up to 150°C
- Typical accuracy: ± 0.7 mm

- Response time: 1 ms
- Airgap up to 2.0 mm
- Optional redundancy
- Very small size
- Integrated diagnostics

Electricfil knowhow

- Suitable for integration in sensor clusters or mechatronic modules
- Wide range of packages and interfaces
- Safe encoding techniques (Gray code).

Application domains

Transmission

[Gear selection indicator](#)