

## SPINpad – Rotor position sensors for industrial applications

This flexible sensor for contactless rotor position detection provides an easy to integrate, magnet free solution for highly accurate and robust motor control. Switching from conventional VR resolvers to SPINpad enables motor systems to be more compact, cost effective and achieve highest efficiencies.

Standard designs are available, but the sensor and the target can be adapted to be the perfect fit for every application. Sensor and Target systems can be 360-degree designs or segmented designs in end-of-shaft, through-shaft or side-shaft configurations. The sensor can either be provided as a PCB that can be integrated with an existing motor control to fulfill the best space requirements or as a fully sealed sensor that operates in the harshest environments.



### Special Features

• Supply voltage 5 V ± 0,25 V
• Electrical interface: Sin Cos (digital, e.g. SPI, ABI on request)
• Operating temperature: -40 °C – 160 °C
• Pole Pairs: 2-20
• Over voltage -15V to +20V
• Rotational Speed: up to 100000rpm
• Current Consumption: <25mA
• IP-Rating and EMC robustness
• RoHS / REACH compliant (Pb-free accord. to techn. rules)
• Target: Flexible Design and Materials (magnet free)
• Accuracy: up to 0,5% (depending on variant)
• Signal immediately after power on
• Immune to AC&DC magnetic fields
• Safety critical operation due to diagnostic and safety features

### Typical Applications

• Industrial and logistics vehicles
• Electric motor
• Automation
• Robotics
• Servo motors
• Building Automation
• Light Electric Vehicles
• Infrastructure
• Tools