

New TMR Sensors for more Energy Efficiency

Lahnau, November 2015. Sensitec has developed innovative sensors based on the tunnel-magneto-resistive (TMR) effect which provides better temperature stability and allows energy efficient sensor designs. These sensors reduce the power consumption by a factor 100 compared to conventional sensors. Sensitec has defined two new TMR product families for angle measurement as well as length and position measurement.

The new **TA900** sensors feature the so called FreePitch technology. That means they can be applied independently of fixed pole pitches and can be used for the absolute measurement of short movements using a dipole magnet or for 360 ° angle measurement at the shaft circumference or the shaft end. In addition to high temperature stability they can offer high accuracy and a large air gap between sensor and measurement scale.

The **TL900** sensor family has been developed for applications using active measurement scales such as measurement scales or pole rings. The sensors are designed to be mounted at the edge of a printed circuit board or similar substrate and are ideal for off-axis, radial measurement configurations. They feature the PerfectWave design which suppresses higher harmonics in the output signal to provide both excellent linear or angular measurement and a high signal quality.

Due to the low power consumption both sensor families are especially well suited for applications which are operated by means of battery or powered by energy harvesting. Furthermore, they are also convenient for EX-protection applications. Other typical applications are incremental and absolute linear or angle encoders, respectively, motor feedback systems, microscope tables or fast rotational measurement.

With the new TMR sensors Sensitec was nominated as one of the three finalists in the competition „Hesse Champions 2015“.

SPS IPC Drives, Hall 3A, stand 250



New TMR sensors from Sensitec.

About Sensitec GmbH

Sensitec is a leading manufacturer of sensors based on the magnetoresistive (MR-) Effect for a large variety of different applications. They fulfil highest demands regarding performance. The product range comprises sensors for the precise measurement of angle, length, position, current or magnetic fields. Furthermore, Sensitec is specialized to provide individual customer-specific complete solutions. At the production site in Mainz Sensitec owns Europe's most efficient and modern wafer factory for the production of AMR-, GMR- and TMR-sensors. The central office is located in Lahnau (Hesse). Sensitec belongs with currently 160 employees to the Körber Group which includes about 50 leading international technology companies in the Business Area of Tobacco, Tissue, Automation, Intralogistics, Mailing, Machine Tools and Pharma Packaging Systems. With around 11,000 employees, the Körber Group currently achieves turnover of more than 2 billion euros.

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