



## Servo actuators: TPM<sup>+</sup> goes DRIVE-CLiQ

Now that the DRIVE-CLiQ encoder interface has been integrated into the TPM<sup>+</sup> product family, WITTENSTEIN motion control GmbH's high-performance servo actuators can also be securely and reliably connected to SIEMENS Sinamics S120 motion control systems.

DRIVE-CLiQ makes an ideal complement to the TPM<sup>+</sup> system interfaces already available for resolvers, SinCos, TTL and single or multiturn motor feedback systems with Endat or HIPERFACE®. Thanks to the extended interface portfolio, the TPM<sup>+</sup> product family and its "dynamic", "power" and "high torque" variants – not to mention the water-cooled "endurance" – now provide maximum flexibility when transferring parameter and control data between the motor encoders of these servo actuators and a wide range of servo amplifiers.

### "Factor S": Integrated functional safety

WITTENSTEIN motion control's TPM<sup>+</sup> servo actuators with a DRIVE-CLiQ interface fit seamlessly into the company's "Factor S" philosophy of safety, security and reliability. The encoder systems used here meet the requirements of international standards for functional safety, for instance as described in EN ISO 13849 "Safety of machinery – Safety-related parts of control systems" and EN IEC 62061 "Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems". In short, the servo actuators comply with all the safety specifications of servo amplifier manufacturers.

### Photos

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High-tech products made by WITTENSTEIN fly into space and win Formula One races. Intelligent drive systems – from the world's smallest high-performance servo drive to the latest state of the art in medical technology – are developed, produced and marketed by a team of around 1800 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.



TPM<sup>+</sup> product family with integrated DRIVE-CLiQ encoder interface

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Texts and photographs in printable quality can be downloaded from <http://www.wittenstein.de/presse.html>.

**WITTENSTEIN AG – one with the future**

With around 1900 employees worldwide and sales of €254 million in 2013/14, WITTENSTEIN AG enjoys an impeccable reputation for innovation, precision and excellence in the field of mechatronic drive technology – not just in Germany but internationally. The group comprises eight pacesetting Business Units with separate subsidiaries for servo gearheads, servo actuator systems, medical technology, miniature servo units, innovative gearing technology, rotary and linear actuator systems, nano technology and electronic and software components for drive technologies. Through its 60 or so subsidiaries and agents in approximately 40 countries, WITTENSTEIN ([www.wittenstein.de](http://www.wittenstein.de)) is additionally represented in all the world's major technology and sales markets.

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