



## Cost-efficient magnetic sensor CM\_582 with PROFINET

Industrial processes do not always need the high accuracy and fast signal processing of optical rotary transducers. Although magnetic sampling systems provide reliable and cost-efficient solutions for a variety of applications, a uniform communication system is required for the communication in machine and system so that all sensors and actuators connect to the controller via the same bus. With the unbroken progress of modern Industrial Ethernet systems, this hi-tech solution is increasingly used in machines and systems with reduced control system performance requirements. This goes frequently together with a high sensitivity for the costs of the individual components. At the same time, this opens the way for a seamless transition into the method of operation of Industrie 4.0.

For these applications, TR-Electronic offers magnetic sampling systems with PROFINET interface. This combines sensor systems that prove sufficient for basic tasks with the powerful data highway on Industrial Ethernet basis.

The user of technology from TR-Electronic need not go without the flexibility of the mechanical version: The CM\_582 series connects to the process alternatively via a solid shaft (CMV) or a blind hole shaft (CMS). The CM\_582 encoder system with a rope length box is available as a complete unit for the direct measurement of linear movements. Bus and power supply are connected via M12 connectors that have proven reliable in the harsh day-to-day applications in industry. The connections sit on the rear of the housing. This provides a particularly compact design. The connected encoder fits in installation situations for encoders in the industrial 58-mm standard sizes.

The CM\_582 units are real absolute multi-turn rotary encoders with gearbox. The same high-quality multi-turn gearboxes and the rugged shaft bearings are used here that have proven their longevity in the other series from TR. The measuring range of 25 bits is distributed to 8192 steps per revolution at a maximum of 4096 absolutely scanned revolutions. PROFINET parameterization permits the output resolution

to be adjusted to the application. Programming via numerator/denominator also permits a closed round axis to be implemented.

<http://www.tr-electronic.com/s/S011403>

<http://www.tr-electronic.com/news/news.html>

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