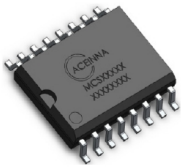
CURRENT SENSOR

Guarantees an accuracy of ±2.0% at 85°C



MCx1101, launched by **Aceinna**, is the first high accuracy current sensors based on AMR Technology ideal for industrial and power supply applications. These sensors are fully integrated and bi-directional, and they are able to guarantee an accuracy of ±2.0% at 85°C and an offset of ±60mA, or ±0.3% of FSR over temperature. It is packaged in an industry standard SOIC-16 package with a low impedance (0.9 milli-ohm) current path and is certified by UL/IEC/EN for isolated applications. MCx1101 delivers a combination of high accuracy, 1.5MHz signal bandwidth with industry benchmark phase shift vs. frequency and 4.8kV isolation making them ideal for high- and low-side sensing in fast current control loops for high performance power supplies, inverters and motor control applications.

▶▶ 56635 at www.ien.eu

SENSORS WITH IO-LINK

Communicate independently to the controller

Müller Industrie presents its family of sensors with IO-Link communication. IO-Link integration reduces machine costs and simplifies sensor replacement while preserving redundant parameter data. The availability of machines and systems can be increased with IO-Link-capable devices by reducing downtimes during maintenance. The digital point-to-point connection IO-Link provides manifold possibilities for the intelligent connection of sensors to the control level of an automation system and the communication between plant control and field level. The communication with each IO-Link sensor enables additional sensor data, transmission of measurement and switching signals without losses and numerous independent diagnostic functions.

▶▶ 56637 at www.ien.eu

COMPACT MOTOR CONTROLLER

Has a peak power of 1050 W

Nanotec launched a new motor controller, the CL4-E, characterized by high performance and compact design. It is suitable for both brushless DC motors and stepper motors and has a peak power of 1050 W. The rated current of this controller is 6 A, additional heat sinks are not required. The motion controller can be controlled via CANopen and Modbus RTU or programmed for stand-alone operation and be controlled via digital and analog inputs. The CL4-E is designed for field-oriented control by encoder, Hall sensors, or sensorless. Due to speed and acceleration feed-forward control, it offers significant improvements over PI controllers in terms of reference behavior and dynamics.

▶▶ 56531 at www.ien.eu

CONFIGURATORS

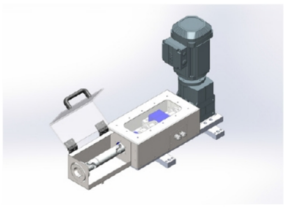
For motors, gearboxes and drives

Motive presents its line of configurators designed for motors, gearboxes and drives. Motive's configurators allow adding to the motor-reducer assembly the electronic variable speed drive mounted on board. They include hundreds of optional interlaced executions, which guide the user to customize the product to different environments, uses, installation needs and applications. The result is a datasheet that contains not just technical data, but also the data/codes necessary for a correct, unambiguous mutual understanding between the client's wishes and the production process in motive. This advanced selection communicates with the reserved area of Motive site section reserved to clients, a tool that allows to know the final price of the configured product with all selected specialties.

▶▶ 56636 at www.ien.eu

WIRELESS TORQUE SENSOR

Uses radio waves to measure the torque in rotation shaft



Sensor Technology provided SGN Electrical's test rings with its TorqSense transducer. TorqSense is much-favoured by test rig builders as it is a non-contact technology that uses reflected radio waves to measure the torque in a rotating shaft. In use, two piezo electric combs are glued to the test shaft at right angles to one another. Their role is to reflect back radio waves aimed at the shaft by the TorqSense, but as they distort in proportion to the torque in the shaft (one compressing, the other expanding), they in turn distort the reflected waves. The amount of wave distortion is proportional to the comb distortion, which reflects the deformation of the shaft and therefore the level of torque it is experiencing.

▶▶ 56642 at www.ien.eu

MULTI-TURN ABSOLUTE ENCODERS

For smart industrial applications

Sensata Technologies presented the new MHM5 and MHK5 absolute multi-turn encoders with either Ethernet/IP or ProfiNet interfaces for Factory 4.0 applications. The flexibility is provided thanks to the possibility of either shafted (MHM5) or blind shaft (MHK5) configurations. These model MH encoders provide up to 16 bits per turn and 14 bits of turns counting. The compact packaging allows these encoders to be easily integrated into existing designs while a wide operating temperature range (-40 to +85C) and an IP65 rating makes them suitable for most any industrial application. Included in the design is a geared turn counter that is immune to electrical or magnetic interference.

▶▶ 56519 at www.ien.eu