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PACE

PROCESS & CONTROL ENGINEERING

Mine of the Future
Rio Tinto's Remote Operations Center in Perth manages 14 mines in the Pilbara 1,400 km away.

Feature 17

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Certified safety encoder

The Fraba Posital division has added a certified safety encoder to their OCD series of absolute shaft encoders. These encoders offer the advantages of increased personnel safety, minimal risk of machines malfunctioning, and reduced costs. In addition to creating a safer environment, the transmission of "Safety Position" eliminates the need to install two separate encoders, and the complex development of validation monitoring logic in the PLC. The new encoders fulfil the requirements of IEC 61508, EN 62061 (SIL CL 3) and EN ISO 13849 (performance level e). Operated with protective extra low voltage (PELV), they are suitable for use in drive technology, lift applications, mobile machines, construction machinery, cranes and machine tools. Safety Specification: SIL CL3, PL e, Cat 4. This OCD encoder uses a proven optoelectronic scanning method to measure absolute position values. The single-turn sensor provides a resolution of up to 16 bit per revolution (0.05°) and the multi-turn unit registers a maximum of 16,384 revolutions (14 bit), thereby covering an overall measuring range of 30 bit.

Plant Control & Automation
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HMI touchscreen for harsh environments

One of the latest products of the EXOR – UniOP 500 Series is the eTOP507G, a harsh environment HMI Operator Touch Screen. The high-brightness, contrast-enhanced ruggedised 7" TFT widescreen (16:9) display with a 800x480 pixel (WVGA) resolution has a fully dimmable LED backlight and support for 64K colours. It features an ingress rating of IP69K (front) and is able to operate in extended temperature ranges -20°C to +60°C. The two built-in dual 100Mb Ethernet interfaces with switch function enhance its communication capability. The Projected Capacitive Touchscreen is constructed with glass bonding assembly and anti-reflective glass surface treatment to deliver superior optical performance. The durable glass touchscreen operates with the human touch thus eliminating false activations. It will continue to work even if the surface is scratched or contaminated. This HMI unit carries ATEX and DNV approvals.

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Wireless monitoring system

ZigSense wireless monitoring system is designed to monitor and record environmental, energy and refrigeration conditions in cool rooms, pharmaceutical laboratories, hospitals, supermarkets, and restaurants. The system is designed to assist in maintaining temperature, humidity and other records generally required for health and safety regulations associated with the food & drug industry. ZigSense system supports a variety of wireless sensing nodes. It includes a central monitoring, logging and display station. The utilisation of wireless sensing nodes will reduce costs normally associated with installing long wires and cables.

Conlab
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Planetary gear units for low speed high torque

SEW-Eurodrive Australia has added two sizes to their P-Series of standardised catalogue products, P072 and P082. The P-Series now covers rated torques up to 500 kNm. The planetary gear units are used in applications where low speeds and high torques are required. The P-Series of industrial planetary gear units is available in 11 sizes and covers torque range from 24 to 500 kNm. The gear units are designed so that the gearmotor is directly mounted in front of the planetary gear unit. This eliminates the need for couplings, intermediate flanges and adapter flanges, saving space and cost. Several different designs enable the gear units to be optimised for the user's application. SEW's gearmotors offer a wide variety at the input. This results in precise gear unit ratio grades. It is possible to combine the designs with the planetary gear unit in helical or bevel-helical gear versions. The P-Series is designed to be short and compact. The gears feature high torsional rigidity and can transmit high torques. The CAD database DriveCAD makes it possible to create 3D models and 2D dimension sheets using DriveGate.

SEW-Eurodrive
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