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# Load monitoring pins

Accu-Load has launched a range of bolts and studs which are capable of monitoring and indicating their load during tightening and in use. Each fastener features a visual or digital readout option which is built into the head of the device and measures a percentage of the proof load. Each bolt is individually machined and calibrated to suit the diameter, material and bolt design.



Accu-Load

The bolts can be used indefinitely and can be supplied with a range of hand held mechanical or digital readout systems for remote monitoring. The technology is intended to be used in applications where vibration or thermal shock are risks or even and accurate tensioning is required.

So far this type of product has been used on crane slew rings, oil platform legs, offshore equipment and mining equipment.



# Simple & Innovative ladder clamp

Newent, UK, based ladder manufacturer Ladder & Fencing Industries (LFI) has introduced a new range of products specifically designed to improve safety for façade scaffolding.

The range includes five objects, including platform ladder access covers, a clip on step for use when erecting guardrails for a

new platform level and a universal ladder clamp to firmly retain a regular access ladder.



The LFI universal ladder clamp and scaffold access gate



# Sonic outrigger sensors

German load measuring company Moba is planning to launch a new ultrasonic outrigger beam sensor. The device comprises two separate sound transmitters and receivers, one mounted to one end of the box on a beam and jack outrigger system, and the other mounted to the opposite end of the outrigger beam.

As the beam is extended the two communicate and measure the distance by the speed the sound wave takes to travel back. The two values are compared and must fall within a pre set parameter to confirm that the system is working, while introducing a duplicate or redundant circuit. The system is said to be highly accurate and less prone to contamination than light based systems, while eliminating the complexity a mechanical connection.

# CANopen Safety published as EN 50325-5

The CANopen Safety protocol (CiA 304) - developed by CAN in Automation (CiA) international users' and manufacturers group - has now been published as a European standard. The safety protocol is an addition to the CANopen protocol standardised in EN 50325-4 - (CiA 301).

CANopen Safety is designed to allow safety-related communication based on CAN according to IEC/EN 61508. TÜV Germany has approved it for use for systems requiring Safety Integrity Level 3 (SIL 3). Any safety-related devices use the Safety-related Data Object (SRDO) service, which allows one-to-many communications. The SRDO messages are periodically broadcast in the network and any other safety-related device interested in the data can use it without the need of a centralised master. An SRDO consists of two CAN messages where the first contains the regular

data and second is transmitted on a different identifier with the data content bit-wise inverted. This allows the use of smaller, less expensive micro-controllers as no complicated CRC is used. The first ready-to-use implementations of CANopen Safety are available now: The CANopen Safety Chip (CSC02) available from CiA, implements the CANopen Safety protocol in a single chip. According to Thilo Schumann of the CiA "The CSC02 is designed especially for sensors used in mobile machines and other out-door applications".

enquiries

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