Measuring systems for construction machinery
Products used on a mobile crane
Angular Position Transmitter

1 Angular position transmitters with analogue or digital output for the determination of e.g. trolley position at a pillar crane. Angular ranges user-defined programmable via pushbuttons or plug.

2 TÜV-approved non-contact magnetic angular position transmitters for measurement of steering axle position in almost every commercial vehicle.

Angular Position Transmitter

For use in excavators angular measurement of basic arm, buckling arm and bucket position calls for the application of extremely rugged magnetic angular position sensors, completely hermetically encapsulated with a protection degree of IP 68.

Winch Speed Sensor

Winch speed sensor is directly coupled with cable reel. Length, direction and speed of track cable as well as limit signal for security facilities at reel bottom are output as Bus signals.

Slewing Ring Transmitter

Slewing ring transmitter with mechanical gearing. To detect pivoting angle and the slew rate of the telescope jib with outer spring gear-wheel (free from backlash).

Tilt Angle Sensors

Single and dual axis tilt angle sensors for the detection of inclination of jib or lifting cages and inclination of a trucks platform respectively for levelling purposes.

Rope Length Transmitter

Rugged and reliable rope length transmitters with stable spring pull-back mechanism and single-layer wire winding. With measuring ranges from 500 mm up to 50.000 mm for measurement of e.g. telescope jib length, length of the telescoped jack, fork height at fork-lift trucks as well as working platforms of scissors platforms.

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Robust Rope Length Transmitter with integrated encoder system and magnetic break. With measuring length up to 4.000 mm and measuring wire of Ø 3 mm for drill trucks in open design.

Spring Cable Reel

Spring cable reel with inclination and displacement transducer as well as multipole collector ring body for transmission of cable signals. Measuring ranges up to 60 m.
Pedal Transmitters

Pedal actuated control transmitters with non-contact inductive or magnetic systems are used e.g. as throttle control transmitters, slewing gear brakes and for similar applications in almost every construction machinery.

Lifting Limit Switch

Inductive lifting limit switch for security switch-off of track cable winding at the bottom of the telescope jib.

Load Detection

For load detection of a telescopic arm at pillar cranes measurement of linear displacement, dependent on load, is carried out by means of potentiometric or inductive linear transmitters.

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Support Control Unit

Support control units with coordinate display, LED display and control elements for control and indicating of jack length, jack pressure and levelling.

Monitoring Systems

Desk integrated monitoring systems in form of LED, diode or pointer indicators for indication of any process parameter necessary in cranes and excavators for control.