Extended life energy chains

Energy chain manufacturer Igus has developed a new version of its E4 energy chain for long travel lengths or dirty applications.

The chains gliding surface has been enlarged by 70 percent, which combined with a wear allowance of 150 percent, the service life of the has been increased by a factor of four, even when used under extreme conditions. The optimised surface geometry and the spring-loaded arrangement of the sliding elements also ensures extremely smooth running.

No additional parts

The enlarged gliding surfaces and opening links are cast in one piece for durability but the chain can still be snapped open at both sides for simple line checks and replacement if necessary. No additional assembly material and tools are necessary for installation of the "extreme gliders" which are designed especially for applications in hostile environments or where the chain needs to carry a heavy load, such as large cranes or long boomed aerial lifts with full pressure hydraulic controls.

New adjustable force transducer

Tecsis has launched a new S-Type force transducer with proven thin film technology which can be easily adjusted during installation. This feature enables the S-Type to replace up to three conventional force transducers says Tecsis.

The programming unit - PE01 - allows the user the user to set the measurement range at 100, 50 or even 30 percent of maximum capacity. According to Tecsis accuracy remains consistently plus or minus 0.2 percent regardless of the range selected. The integrated overload protection allows for a load of up to 400 percent of the nominal force in both directions without damage.

The transducer uses a proven thin film sensor, the sensing element, which is sealed with a laser, gives all the advantages of a strain gauge, without some of the disadvantages such as temperature drift.

Typical applications include overload detection equipment or load weighing devices, it features class IP67 protection and the stainless steel housing makes it ideal for tough environments. The maximum force of the different versions varies from 2 kN to 50 kN. The output can be 4…20 mA or 0…10 V. A standard M12 connector is used for electrical connections. The integrated amplifier guarantees a minimal temperature drift, long term stability, and reproducibility of the measured values.

The new S Type force transducer is suited to tough environments and replaces three standard models

Hand-held 'point and read' thermometer ... for engineers and technicians

Micro-Epsilon has launched a new compact handheld infrared temperature measurement device, the Optris MiniSight Pro, offering engineers a genuine, low cost alternative to thermal imaging cameras. Priced at just £199, the new thermometer is very easy to use, the engineer simply aims the device at the target and presses the button. The temperature is then displayed on an LCD readout.

Service engineers and maintenance technicians can use the device to measure the surface temperature of objects between -32°C and 760°C. The optical resolution of the unit is 40:1, providing an accuracy of plus or minus one percent or one degree between 0°C and 760°C. The user can even programme the device to compensate for the emissivity (the intensity of infrared radiation emitted by every material or body) of different target materials.

The Optris MiniSight Pro comes with onboard data logging capabilities that can handle up to 20 different values, a thermocouple input, alarm functions and a USB interface. Optris Connect' software is also provided, which enables the user to set parameters and record temperatures. The unit is supplied with a tripod and carrying pouch as standard.

The Optris MiniSight Pro hand-held thermometer

The device is Ideally suited to preventive maintenance applications, quality management, R&D and electronic design, the 'optris MiniSight Pro' can be used to check electrical equipment; to detect 'hot spots' on bearings, motors and power transmission equipment; to measure the temperature of moving objects in manufacturing processes; to detect energy losses on heat insulations; and to inspect critical components on vehicles.

enquiries

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