A103 Eddy current sensors eddyNCDT





The quality of textiles depends decisively on the uniform thickness of the yarn used, because thickness variations are directly visible in the material. The thickness variations of the yarn are measured in draw frame machines and compensated by closed-loop controlled stretching equipment. At the input of the draw frame, the thickness variations are transferred via probe rollers to an eddy current displacement sensor. The sensor measurement signal is used as the basis for the control circuit in the following stretching equipment. A second displacement sensor, which measures the thickness of the sliver at the draw frame output, is employed for quality monitoring and documentation.

The deciding features for the selection of eddy current displacement sensors from Micro-Epsilon are the highly dynamic response and resolution. Which ensure high productivity of the line together with excellent quality of the final products. Another important aspect is the non-contact measuring principle which supplies reliable measurements even with accumulated dirt due to textile fibres. The advantage for the customer is a clear improvement in productivity and quality with a very good price/ performance ratio.

Reasons for choosing the system

- Customer- and applications-specific system
- Highly dynamic, high resolution
- Excellent price/performance ration

Requirements for the measurement system

- Robust sensor design
- Measuring range 2 / 6mm
- High dynamic 5kHz
- High Resolution 0.005% FSO

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