








More Precision

capa**NCDT** // Capacitive sensors for displacement, distance & gap



Robust multi-channel system for thickness measurement of brake discs capaNCDT DTV

-  Robust multi-channel sensor for multi-track measurements
-  **+800°C**
High temperature sensors up to +800 °C
-  For dynamic measurements
-  Comprehensive software package
-  Successful in test benches and road tests



The capaNCDT DTV is designed for non-contact measurement of brake disc thickness and Disc Thickness Variation. Thickness measurements can be carried out in test benches, in road tests or in car repair shops. The measurement is performed using capacitive displacement sensors that measure the thickness of the brake disc from two sides. The thickness is determined by using the difference principle. If the brake disc rotates, the thickness deviation is determined over the entire disc circumference. Using several sensors in pairs enables multi-track thickness measurements. For multi-track measurements, a robust sensor with 4 measuring surfaces is available.

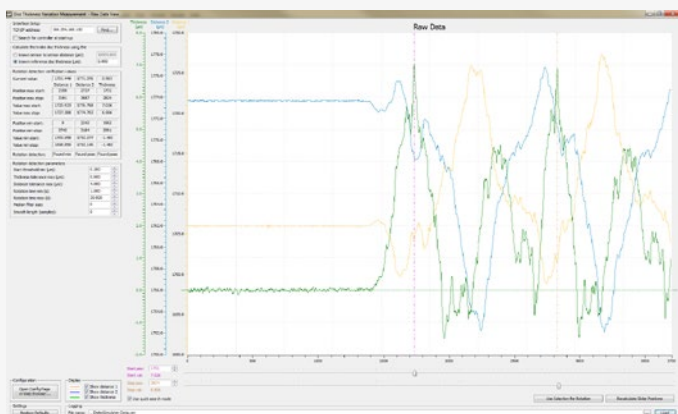
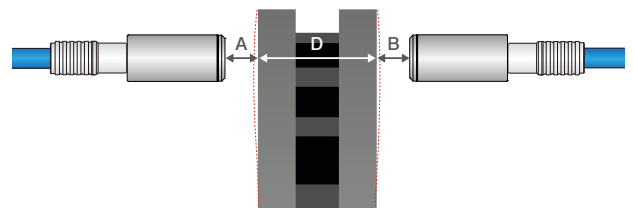
Capacitive controller for dynamic measurement tasks

Combined with the DT6220 controller, four sensor channels can be processed synchronously. Due to the high bandwidth, dynamic measurements up to 5 kHz (-3dB) are possible. Data output is via an analog output or a digital Ethernet/EtherCAT interface. A web interface enables the configuration of the sensor and controller.

Controller	DT6229(02)/DTV
Sensors	recommended for use with CS-x series sensors; also compatible with CSE/HT series sensors or the special CSH1,4FL 4-channel sensor
Frequency response (-3dB)	max. 5 kHz, switchable
Sensitivity deviation	< ±0.1 % FSO
Data rate (digital output)	max. 3.906 kSa/s
No. of channels	max. 4

Software for DTV evaluation

Special DTV software calculates and delivers thickness values over time, providing real-time evaluation of measured results.



Software for DTV measurement

- Automatic and manual detection of rotation via peak-to-peak evaluation
- Print and memory
- Automatic compensation with perforated brake discs
- Free software updates

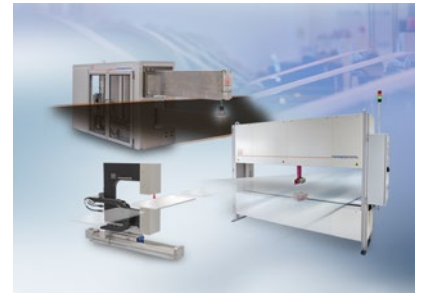
Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Sensors and measurement devices for non-contact temperature measurement



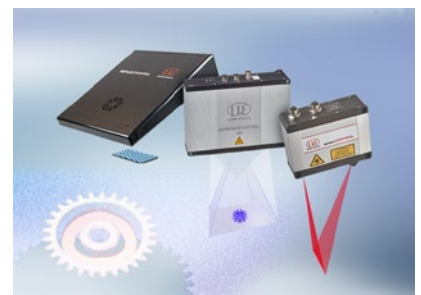
Measuring and inspection systems for metal strips, plastics and rubber



Optical micrometers and fiber optics, measuring and test amplifiers



Color recognition sensors, LED analyzers and inline color spectrometers



3D measurement technology for dimensional testing and surface inspection