MICRO-EPSILON

More Precision

capaNCDT 6536 // Capacitive multi-channel system for highest resolution

- *Multi-channel system with sub-nanometer resolution*
- *Virtually independent of temperature*
- *Integrated calculation function, e.g. for thickness measurements*
- *Numerous filters, averaging features, trigger functions, storage of measured values, digital linearization*

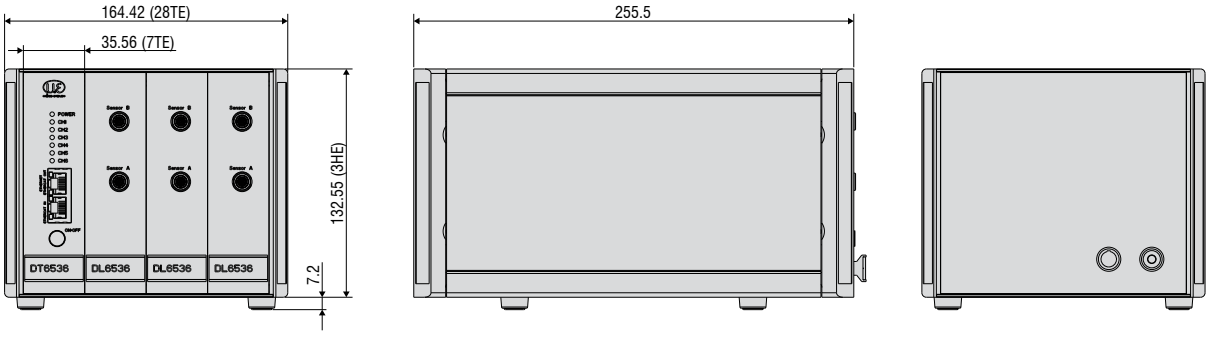
System design

The modular capaNCDT 6536 system is designed for multi-channel applications. Up to six sensors can be connected to the signal conditioning electronics (slots in European size) via a double demodulator.

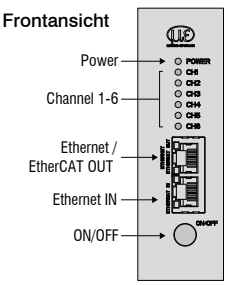
A measuring system with n measurement channels consists of:

1. DT6536 controller with Ethernet, oscillator and analog output
2. n x DL6536 demodulator modules (with integral pre-amplifier)
3. n x sensor cables
4. n x sensors

Controller DT6536 6-Kanal-Ausführung



DL6536 Frontansicht



Controller type		DT6536
Resolution	static	0.0006 % FSO
	dynamic	0.015 % FSO (8.5 kHz)
Data rate (digital output)		6 x 3.9 kSa/s
Linearity (typ.)		≤ ± 0.05 % FSO
Sensitivity		≤ ± 0.1 % FSO
Repeatability		0.001 % FSO
Long-term stability		± 0.02 % FSO / month
Synchronization		yes
Temperature stability		80 ppm
Temperature range (operation)	Sensor	-50 ... + 200 °C
	Controller	+10 ... +60 °C
Temperature range (storage)		-10 ... +75 °C
Power supply		24 V
Output		Ethernet 24 Bit; EtherCAT
Sensors		compatible with all sensors
Sensor cable (standard)		CC cable ≤ 1 m CCm cable = 1.4 m CCg cable = 2 m
Sensor cable (special tuning)		double standard cable length
No. of measurement channels		max. 6

FSO = Full Scale Output

Options		
Article no.	Description	Description
2982019	EMR2 DL65x0	Extended measuring range (factor: 2)
2982020	RMR 1/2 DL65x0	Reduced measuring range (factor: 1/2)
2982021	ECL2 DL65x0	Special tuning for double standard cable length

Web interface

The web interface for controller configuration opens via Ethernet. Up to 6 channels can be visualized and linked arithmetically.

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