

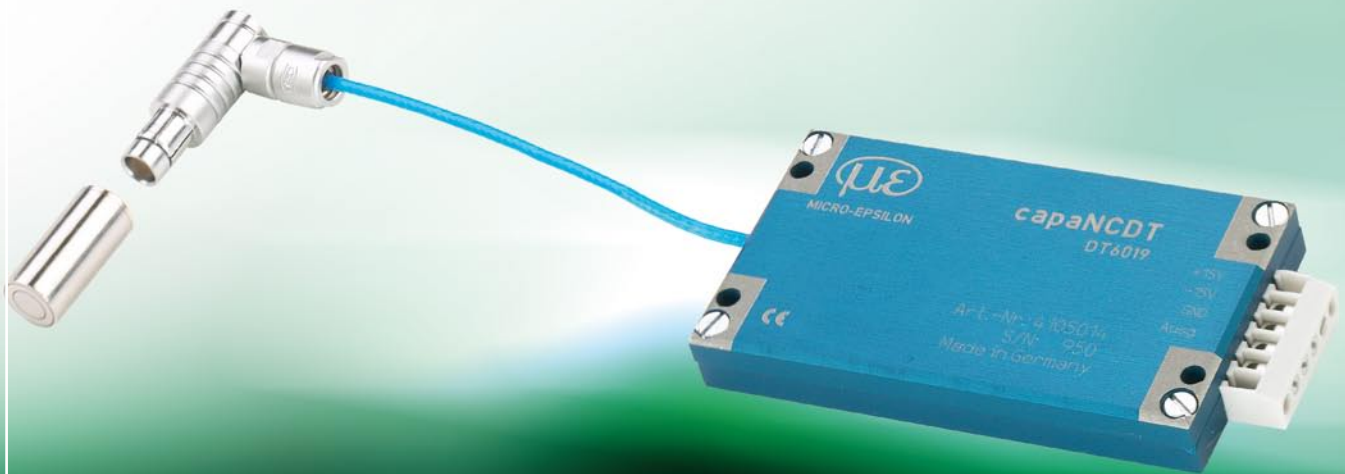


More Precision.

capaNCDT

High resolution capacitive displacement sensors and systems.





- Smallest capacitive controller in the world
- Low power consumption
- Extreme stability

System structure

The capaNCDT capacitive measuring system is a single-channel system that uses SMD technology with integrated sensor connection cable and is specially developed for integration with machines and systems. The extremely compact design and economical price are intended for OEM applications. All electrically conducting materials can be used as targets. The capacitive measuring principle ensures high stability, high accuracy and precise measurements. Typical applications are found in positioning, wear measurements, gap measurements, displacement, roundness and others.

The compact design of the controller enables space-saving installations in restricted spaces. Furthermore, the measuring system requires an extremely low supply current.

For this reason, the system also runs by a battery.

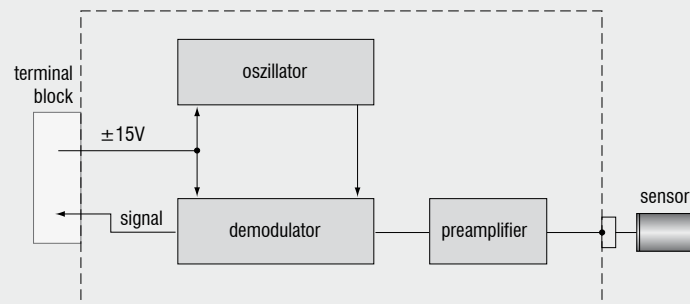
A measuring system consists of:

- Controller DT6019 with integrated cable
- Sensor with female connector (except CS005)

Block diagram

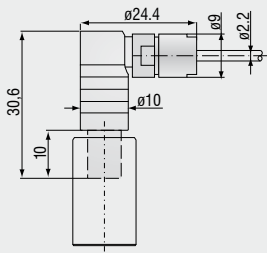
Power supply: ± 12 VDC ... ± 18 VDC

Output: 0-10 V

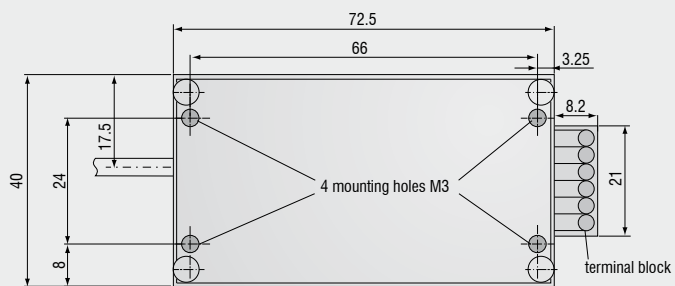
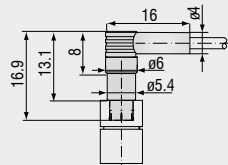


Controller type	DT6019
Resolution static	0.015 % FSO
Resolution dynamic	0.1 % FSO (500Hz)
Bandwidth	0.5kHz
Linearity	± 1 % FSO
Max. sensitivity deviation	± 0.5 % FSO
Long term stability	$\leq 0.05\%$ FSO / month
Synchronous operation	no
Insulator measurement	no
Temperature stability	$\pm 0.05\%$ FSO / °C
Temperature range (operation)	+10°C ... +50°C
Temperature range (storage)	-10°C ... +75°C
Supply	$\pm 12 \dots \pm 18$ VDC
Power consumption	-7 / +8mA
Output	0 ... 10V (within measuring range), short circuit proof
Weight	60g
Suitable for sensors	all sensors with plug connector, except CS005

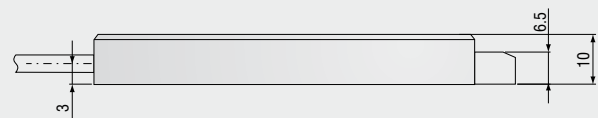
DT6019-B with 90° connector for sensors CS1 - CS10



DT6019-C with 90° connector for sensors CS02, CS05, CS08



DT6019 single channel controller



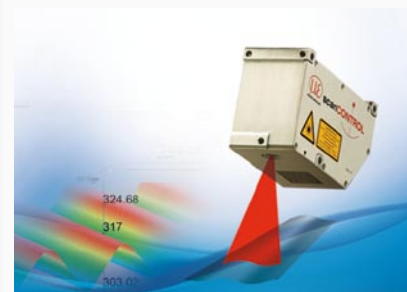
High performance sensors made by Micro-Epsilon



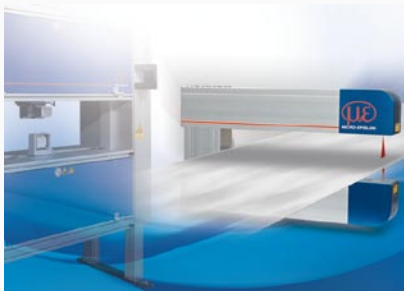
Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



2D/3D profile sensors (laser scanner)



Measurement and inspection systems for quality assurance



Optical micrometers and optical fibers



Color recognition sensors and LED analyzers