MICRO-EPSILON

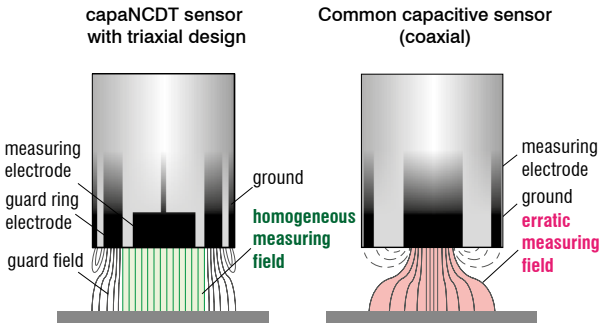
More Precision

capaNCDT // Capacitive sensors for displacement, distance & gap

More precision and stability
capaNCDT

Maximum signal stability

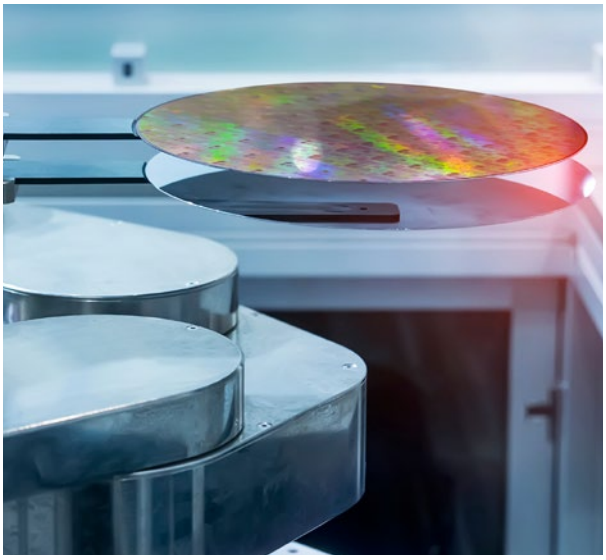
Triaxial sensor design with active sensor cable



- Triaxial sensor design: measurement electrode, guard ring electrode and grounding
- Guard ring electrode ensures a homogeneous measuring field for precise measurements with highest signal stability
- Particularly low noise: electrically shielded sensor cable
- Highly precise – even when multiple sensors are arranged very close together
- Sensors with short-circuit safety

Unmatched precision

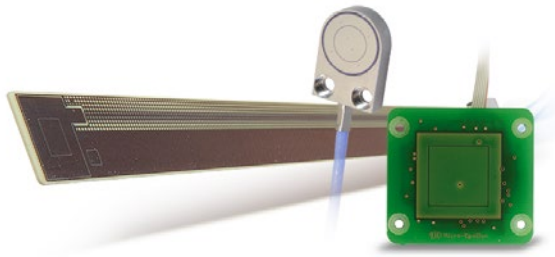
Nanometer precision with subnanometer resolution



- High resolution from 0.015 nanometers
- Ultra-precision: linearity up to 200 nanometers
- Extremely reproducible
- Excellent long-term stability of ±0.004 % FSO per month

Extensive range of applications

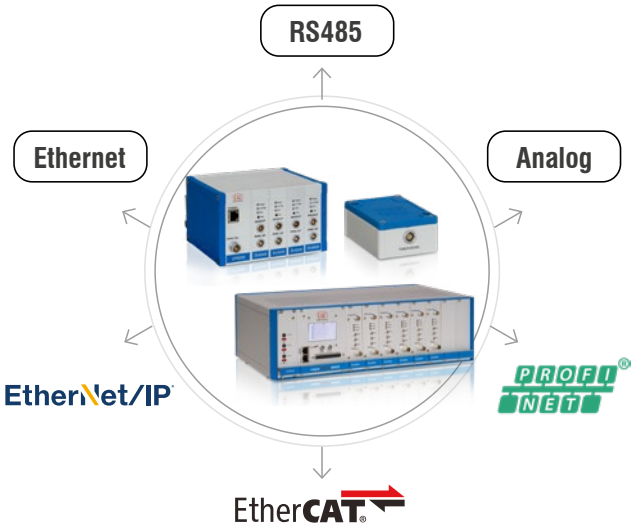
Widest portfolio of controllers and sensors



- All electrically conductive measuring objects: metals, alloys, CFRP, graphite, coatings
- No minimum thickness of the measuring object: an electrically conductive layer (e.g., 10 µm) is sufficient for measurement, e.g., vapor-deposited gold/metal layer
- Long distances possible: sensor cables up to 40 m
- Suitable for use on robots and in drag chains
- Various sensor models: flat/cylindrical/thread

Easy integration into machines and straightforward retrofitting

Numerous interfaces and easy integration

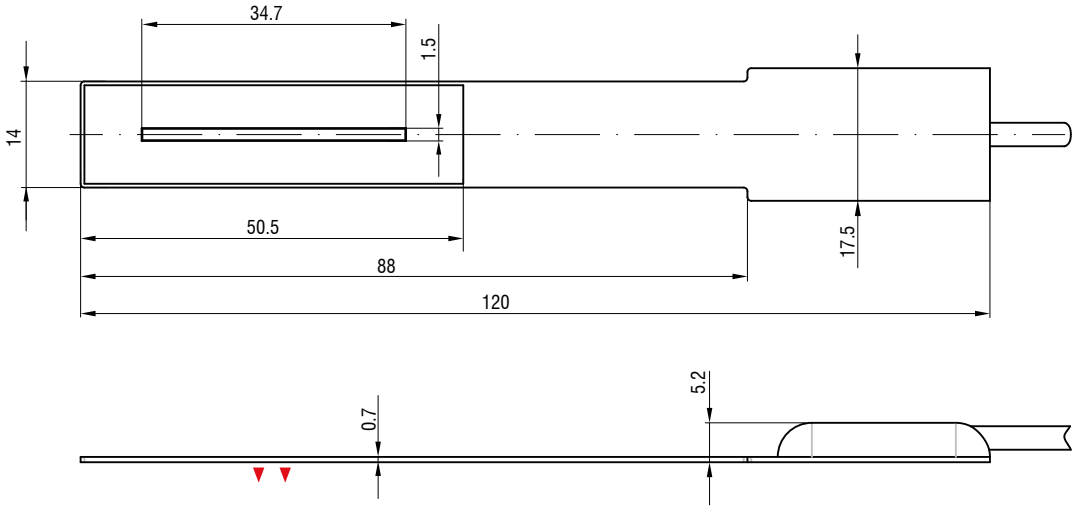


- Flexible integration due to industrial outputs: current, voltage, RS485, Ethernet and fieldbuses
- Secure mounting of the sensor and cable
- Simple installation concept requiring no special expertise
- Easy-to-clean sensor surfaces (CSF models)

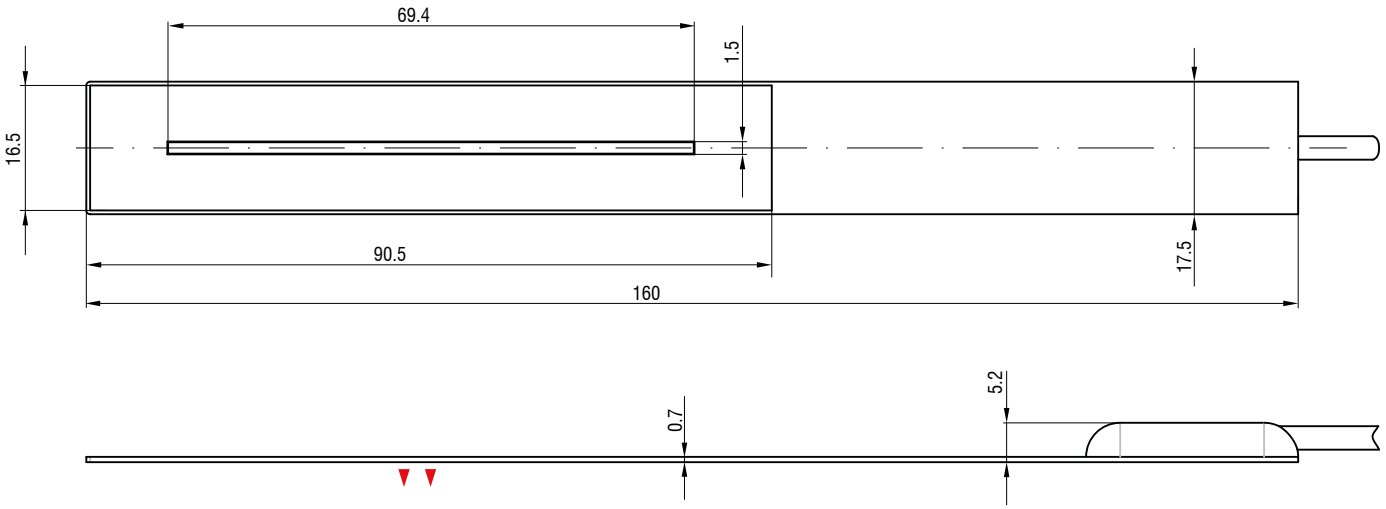
Dimensions
capaNCDT CSF

Flat sensors with integrated sensor cable

CSF2-CRg4.0



CSF4-CRg4.0



CSF6-CRg4.0