



High temperature blade tip clearance control TURBOCOAX® capacitive sensors

- Non-contact blade tip clearance measurement
- No cooling system required
- Small dimensions
- Withstand temperatures up to 1,300°C (2,400°F)

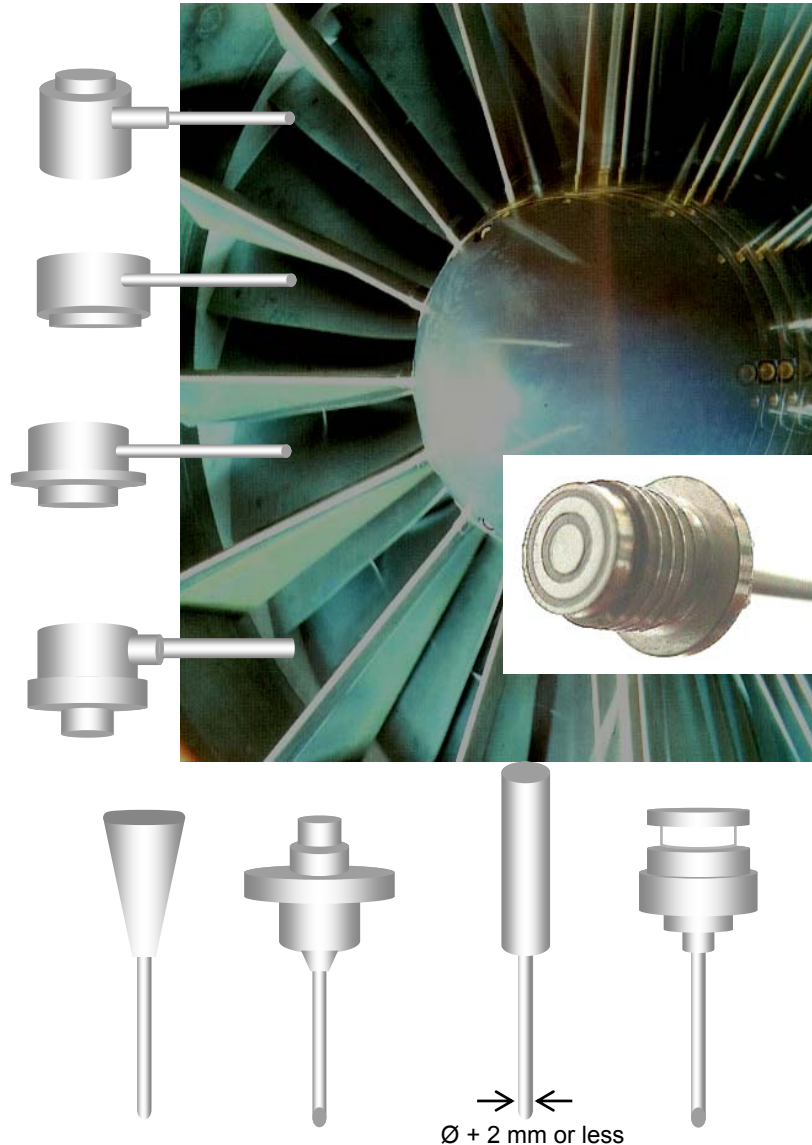
Capacitive sensors were developed to measure the clearance between the tip of the blades and the casing of turboengines.

The turboengine yield is directly related to this clearance, which must be minimum, but the blading must not, in any circumstances, touch the casing.

Main applications for capacitive sensors are found in aircraft engines, but the same measurement problem exists in industrial gas turbines.

- Compressor control
- Turbine control
- Development measurements
- Engine monitoring

Thanks to their small dimensions and "no cooling", TURBOCOAX® capacitive sensors do not disturb the casing temperature distribution, shape, or clearance.



- Vibration tested up to 3,000 g's at 10 kHz
- Temperatures up to 1,300°C (2,400°F)
- Capacitance : 200 to 400 pF
- Mineral Insulated cable with specified sheath material or insulant
- Cable diameter 2 mm or less, length up to 5 m
- Clearance range from 0 to 3 mm
- Various body designs and types to suit standard and specific applications