

WE ARE POSITION & FORCE SENSORS

READY FOR HEALTH MONITORING?

Leaders in custom-designed mechanical & electronic sensing solutions

Our large variety of standard or tailor-made **Position Sensors and Force Sensors** are successfully used on critical and highly-demanding applications for civil and military airplanes, helicopters, eVTOL, space and various defense programs all over the world. 50 years' experience

100K+ sensors shipped each year

CVIL

8000YE!

60+ Active Programs

Position Sensors



ELECTROMECHANICAL

LIMIT SWITCHES



AVAILABLE OPTIONS:

- > Extended temperature range: -55°C to +250°C
- > Waterproof or hermetically sealed
- > Multi-pole function
- Specific housing
- > Activation by plunger, roller or lever upon request
- > Extended attack speed range for activation
- > Multi electrical output (wire, cable or connector)
- > Switching power from 1 mA to 7 A

INDUCTIVE

PROXIMITY SWITCHES & SENSORS

With Integrated Electronics



AVAILABLE OPTIONS:

- > Multi electrical output (wires, cable or connector)
- > Full hermetic stainless steel housing
- > High pressure exposure: up to 310 bars
- > Extended temperature range: -55°C to +125°C
- > Good resistance to EMI/EMC susceptibility
- > Detection up to 7mm
- > Health monitoring

Combined with a Remote Electronic Board



A Remote Electronic Board allows you to place the analog sensor in the harshest environments

AVAILABLE OPTIONS:

- > DO 254 DAL A compliant
- > One board can multiplex 8 sensors at a time
- > Multi-electrical output (wires, cables or connector)
- > Full hermetic stainless steel housing
- > Extended temperature range: -65°C to +150°C
- > Detection up to 8 mm
- > Health monitoring

Force & Load Sensors



FORCE SENSORS



- › Load pins
- Compression load cells
- Traction/compression load cells
- > Bending sensors
- Multi-axis sensors
- > Tie Rods
- Measurement of compression and/or traction forces: from 500N to 20MN
- > Measurement of forces in one or more directions
- Analog or digital outputs: mv/V, CAN Open, CAN J939, RS232-RS485, O-10V, 4-20mA)
- > IP Level: IP65/66/67/68
- > Temperature range: -30°C to +70°C

WEIGHING LOAD CELLS



- Load pins
- › Compression load cells
- > Bending sensors

> Large displacement

(millimeter)Small displacement (micrometer)

- Weight measurement using compression and traction force values
- Analog or digital output: mv/V, CAN Open, CAN J939, RS232-RS485, O-10V, 4-20mA
- > IP Level: IP65/66/67/68
- > Temperature Range: -30°C to +70°C

EXTENSOMETERS

TORQUE SENSORS



Static Torque
Sensor

Sensor

- Torque measurement between two parts: from 5 Nm to 20 000 Nm
- Analog or digital output: mv/V, CAN Open, CAN J939, RS232-RS485, O-10V, 4-20mA
- > IP Level: IP65/66/67/68
- > Temperature Range: -30°C to +70°C

- Measures a displacement from millimeters to micrometers via the deformation of a part (± 1000 µm/m)
- Analog or digital output: mv/V, CAN Open, CAN J939, R5232-R5485, O-10V, 4-20mA
- > IP Level: IP67
- > Temperature range: from -30°C to +80°C

ASSOCIATED SERVICES

Calibration:

We can perform **COFRAC-connected** calibrations of your force and torque sensors, and conduct fatigue tests thanks to our world-class expertise and testing facilities.

Repair: We can repair your damaged sensors

A 100% customized solution that meets your needs.







60+ Years of Aerospace Qualification Expertise

DESIGN & ADAPTATION AGILITY AT YOUR SERVICE





Multidisciplinary Team Dedicated to your program



Safety-of-Flight Prototypes Fast Delivery (1-2 years)



Global Manufacturing **High-Quality & Efficient**

Let us know more about your upcoming projects at:

www.crouzet.com/contact-us

