



INDUSTRIAL MACHINERY AND PROCESSES SENSORS

As today's factories evolve into more industrial internet of things (IIoT) friendly facilities, there is a growing focus on how sensors in industrial machinery can increase efficiency and productivity. TE Connectivity's (TE) pressure, position, temperature, speed and vibration sensors play a variety of essential roles within machinery on the factory floor. The functions of these sensors allow facilities to utilize the best practices including predictive maintenance, asset monitoring, machine and process automation to confirm decreased downtime and increased profitability for manufacturers. Additionally, our sensors are designed to withstand harsh environmental conditions such as high temperatures or dirty surroundings while still accurately measuring and monitoring machinery.

- **FORCE**
- **PRESSURE**
- **PIEZO FILM**
- **TEMPERATURE**
- **POSITION**
- **VIBRATION**

QUALITY STATEMENTS

- AS 9000B
- ATEX
- EN 9100
- EN 13980
- ISO 14001
- ISO 9001
- NADCAP Welding & Brazing
- NASA Qualified

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FORCE SENSORS

FS20

The FS20 series low compression force sensor offers normalized zero and span for interchangeability and is thermally compensated for changes in zero and span with respect to temperature.



FX19

The FX1901 units are intended for OEM use in laboratory, hospital or consumer product applications, establishing a breakthrough price/performance value for compression load cells.



FX29

The FX29 is a compact compression load cell that offers exceptional price-to-performance in a robust sensor package with a millivolt, analog, or digital output signal.



ELAF

The ELAF series compression and tension load cells raise the bar for high performance at low cost.



FN3030

The FN3030 measures tension and compression in standard ranges from 0-50 N to 0-100 000 N.



PIEZO FILM SENSORS

LDT0

The LDT0-028K is a flexible component comprising a 28 µm thick piezoelectric PVDF polymer film with screen-printed silver ink electrodes, laminated to a 0.125 mm polyester substrate and fitted with two crimped contacts.



Piezo Cable

The piezo cable is another form of piezo polymer sensors. Designed as a coaxial cable, the piezo polymer is the dielectric between the center core and the outer braid.



POSITION SENSORS

ED-20

The ED-20 series magnetic encoder is designed for medium duty industrial feedback applications with ball bearing supported shaft.



CTS-420

The CTS-420 series is a 2-wire current loop position transmitter system especially suited to measurements in process industries.



HC-485

The HC-485 RS-485 LVDT is a self-contained, ultra precision, digital I/O position sensor for high performance measurements in environments containing moisture, dirt and fluid contaminants.



RVIT

The RVIT 15-60 and RVIT 15-120i are DC operated, non-contact, angular position sensors featuring proprietary RVIT (Rotary Variable Inductance Transducer) technology.



KMA36

The KMA36 magnetic encoder is an excellent solution for reliable and precise measurement in innovative and rugged applications.



DOG2

The DOG2 MEMS-series inclinometer dual axis is mainly developed with focus on platform leveling, dynamic engine management, tip-over protection and tilt alarm.



LVDT

The HR series general purpose LVDTs provide the optimum performance required for a majority of position measurement applications.



DOG1

The DOG1 MEMS-series single axis inclinometer is manufactured for platform leveling, dynamic engine management, tip-over protection and tilt alarm.



XS-B

The XS-B series of subminiature LVDTs were specifically designed for micro applications, where small physical size is the prime requirement.



SP1

The SP1 voltage divider compact string pot provides ease-of-use and flexibility for measurement ranges up to 50 inches.



PRESSURE SENSORS

MS4515DO

The MS4515DO is a small, ceramic based, PCB mounted pressure transducer.



MS4525DO

The MS4525DO is a small, ceramic based, PCB mounted pressure transducer.



U5200

The U5200 series +/-1.25% TEB pressure transducer from the ultra-stable line offers maximum flexibility for different configurations with its modular design.



U5300

The instrument grade U5300 series +/-0.5% TEB pressure transducer from the ultra-stable line offers maximum flexibility for different configurations with its modular design.



M5600/U5600

The M600/U5600 are 24-bit ADC wireless pressure transducers enclosed in a stainless steel and polycarbonate housing.



TEMPERATURE SENSORS

TSEV

The TSEV is a contact less temperature measuring system for OEM use based on the detection of infrared radiation.



10K NTC Probe

The 10K ohm resistance NTC micro thermistor probe is soldered to 30 AWG solid silver plated copper wire with PVDF Insulation and potted in a polyimide tube with thermally conductive black epoxy.



Pipe Probe

The pipe probe series PRO4-overmolded probe consists of a NTC thermistor soldered to a 24 AWG stranded TPE cable and potted in a copper housing. The assembly is over molded leaving the copper housing exposed. A metal clip is attached to the final assembly.



VIBRATION SENSORS

8021

The model 8021-01 & 8022-01 are internally shielded rugged IEPE accelerometers designed for harsh environments.



4000A

The 4000A amplified uniaxial economy accelerometer offers a signal conditioned output with an integral temperature compensation dynamic range of ±2g to ±100g.



8911

The 8911 wireless accelerometer for proof of concept (POC) is designed for vibration monitoring in applications such as predictive maintenance and condition monitoring.

