

Position Overview

We offer a wide range of position sensors used in many applications across the OEM and Test & Measurement markets.

- Encoders, linear potentiometers, LVDTs, RVDTs, RVITs, Non contact magneto resistive, Tilt
- Absolute and Incremental, AC & DC LVDTs, Outputs 4-20mA, RS485, RS232, Voltage & mV
- Aerospace AS9100, Nuclear, Marine and ATEX approvals available.
- Dual redundancy, Ingress protection to IP68, -195 Deg Cryogenic to 550°C options
- · Application specific designs available for all product types. OEM custom products available

OEM Sensors

KINT 32BT

Anisotropic Magnetoresistive (AMR) components

- Low magnetic field, Angle or Linear displacement sensors
- Package styles SOT-223, SO-8, TDFN 2.5 x 2.5 or TSSOP
- Angle to 360 degrees, linear displacement 1, 2 & 5mm
- Output options ratiometric, sine/cosine, voltage, I2C

Inclination sensor module



- Ranges +/- 5 degree, +/-15 degree, voltage output
- Small package 27 x 17 x 16.5mm
- Easy handling, minimal temperature drift, long term stability

Inclination board module



- Ranges +/- 2 degree to +/- 30 degrees, Voltage/RS232/SPI outputs
- Accuracies to 0.05 degrees, -40 to 85°C operation
- · High resolution, user configurable, excellent long term stability

Linear incremental encoder (non contact)



- Range 0-100mm, 5V TTL or RS485 output
- Incremental or absolute options, 10 micron resolution IP67
- High speed 4 m/s, programmable, error detection

Inductive dimensional gauging

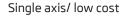


- AC and DC operational options, spring loaded or air actuated LVDT based
- Outputs 2-10 kHz, DC versions +/-10V, 1-6VDC, 4-20 mA or RS485
- Accuracy typically 0.1% FS (micron accuracy), lengths 23mm to 293mm
- Options IP68, contact tip material, travel length, hermetic sealing



Position Overview

Tilt Sensors





- Conductive liquid or capacitive fluid filled technology
- Range options to +/- 60 degrees, (180/360 degree on request)
 Voltage/Switch/PWM output
- Accuracy 0.5% FS, Temperature compensated, -40 to 85°C operational
- Compact, light weight, cost effective, easy to use

Dual axis



- Conductive liquid cell offering outstanding performance and long term stability
- Range options to +/- 45 degrees, (180/360 degree on request)
- High accuracy to 0.02 degree, RS232/voltage/4-20mA/PWM/CANopen/ratiometric outputs
- High resolution, temperature compensated, robust construction, programmable, high EMI

Linear Position

Lightweight/Standard linear potentiometers



- Measuring lengths 12.5mm to 300mm, robust construction, lightweight and small diameter
- Infinite resolution, mechanical life >25 million cycles, latest composite materials
- Pop joint/ rod end connections, 500mm cable length with flexible orientation
- Options: Dual redundancy, 4-20mA, IP67, high endurance sealing for extended life

Heavy Duty linear potentiometers



- Measuring lengths 50mm to 1000mm, heavy duty construction
- 32mm diameter, integral connector, output options including 4-20mA and 0-10VDC
- Build options: body colour, return spring, high linearity, dual output, calibration

LVDT / LVIT (Linear Variable Differential/Inductive Transducers)



- AC operated LVDT position sensors, ranges 0.2mm to 100mm
- Accuracy typically 0.25%, -55°C to 220°C option
- Small size 5mm diameter, highly reliable
- Friction free/non-contact, extremely long cycle life, light weight

LVDT Harsh Environment



- AC operated linear position, ranges 0.2mm to 250mm
- Harsh and hostile environments such as nuclear, radiation, IP68 ingress protection, submersible
- High temperature and hermetic seal options

LVDT DC Operated



- DC operation, ranges 2mm to 250mm
 Operating Temperature to -40 to 85°C, output options 10VDC, ratiometric, 4-20mA, RS485
- Hermetic sealing, high EMC resistance, 0.05% FS option, IP68 & ATEX approvals



Position Overview

Rotary Position





- Rugged housing, high tolerance to shock and vibration, humidity/salt resistant
- **Options:** housing materials, high output, R-flex coupler, EMC shielding

RVIT (Angular Variable Inductive Transducer)

- DC operation, 60 ot 120 Degree position, -40 to 85°C, 25mm to 38mm diameter
- Outputs 0.5 to 4.5 VDC, 4-20mA, 1-5 VDC, Digital on request
- Size 11 & 15 servo mount, OEM variants available



- Absolute and Incremental angular encoders using AMR and Hall effect technology
- 0 to 360 degree position, 5V or 12 to 32 VDC supply voltage
- Excellent stability, high cycle life, sealed electronics, harsh environments
- Speeds to 3000 rpm, -40 to 85°C, 19mm to 32mm diameter





