

POSITION SENSOR

TURBINE ENGINE LVDT | PRODUCT DETAIL

Description

This LVDT sensor provides continuous position feedback for use in electrical-hydraulic closed loop systems. Alternative packaging including units with connectors, can be supplied dependent on customer requirements.

Applications

Fuel Controls, Vane Pitch Actuators, Thrust Vectoring, Valve Position Feedback

Features

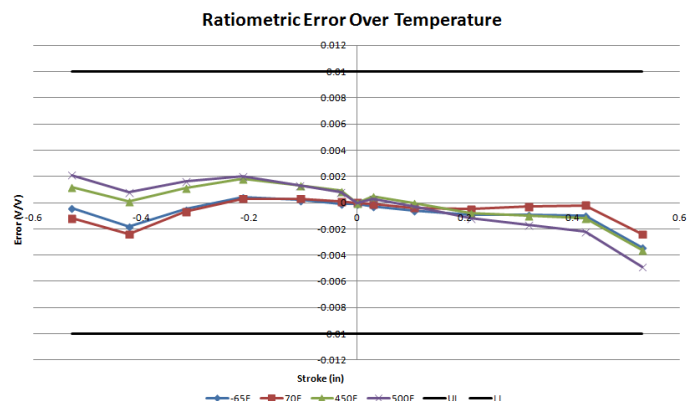
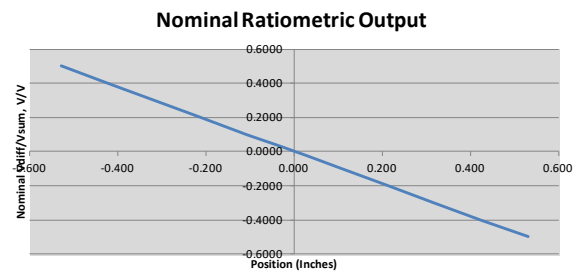
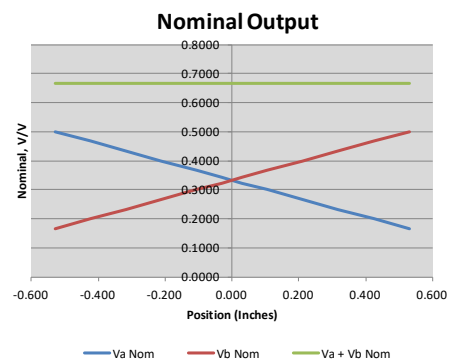
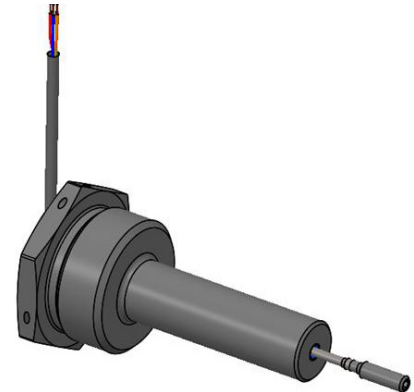
- Higher temperature tolerance - allows LVDT to be utilized closer to hot section
- Thermal compensation not required - improved performance across temperature range
- Available in multi-channel configurations

Specifications

- Input Voltage: Typical 3-7 VAC, Frequency 2 Khz - 5 Khz
- Sensing Stroke: Various
- Accuracy: $\pm 1.0\%$ Full Scale for Ratiometric Output
- Temperature Range: -65°F (-54°C) up to $+464^{\circ}\text{F}$ ($+240^{\circ}\text{C}$)
- Pressure Rating: 3,200 PSI (220 Bar) Burst as Shown, Other Available

Testing

- Pressure: Proof: 2,200 PSI at 464°F (Burst: 2,900 PSI at 464°F)
- Vibration: MIL-STD-810C & RTCA DO-160
- Frequency Sweeps: Performed from 5 to 3000 Hz for a Total of 15 Hours on Each Axis



RCTA/DO 160G	Section	Category
Shock	7	B - with a level of 20 g for an 11 msec pulse
Explosion Proof	9	E
Humidity	6	C
Sand & Dust	12	D
Waterproof	10	R
Salt Spray	14	S
Fungus	13	F



Lisk engineered LVDTs (Linear Variable Differential Transformer) are found in aerospace, heavy-duty engines, refineries and mining equipment, offering extremely reliable position feedback sensing. Features include:

- Strokes of .010" to 24" and beyond with accuracy better than 0.5% of full scale range
- Single channel and multi-channel (up to 6 channels) LVDT designs
- AC and DC inputs and outputs
- Can accommodate high pressures and wide temperature extremes
- Part count can be reduced by using customer interfaces and mountings to match any application.



ABOUT US

We are a global leader in the design and manufacture of engineered solutions including solenoids, solenoid valves, linear and rotary position sensors, motors, electric actuators and flame arrestors. We serve hundreds of customers in diverse markets throughout the world with market-leading solutions enabled by our extensive design, test and manufacturing capabilities.

