

LVDT Sensor / Product Detail

Turbine Engine LVDT Family

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 dependant 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

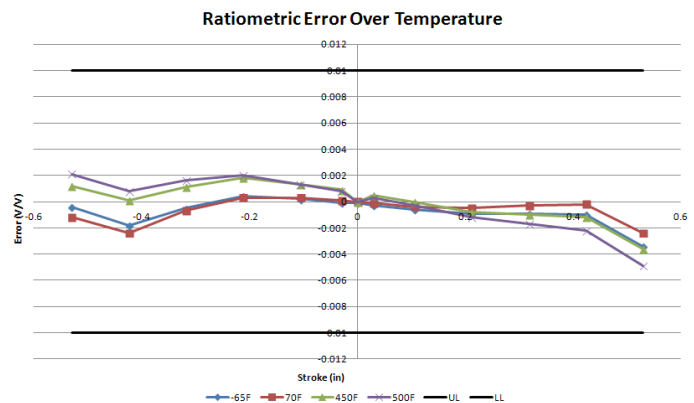
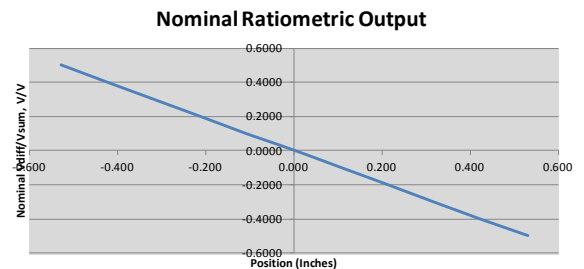
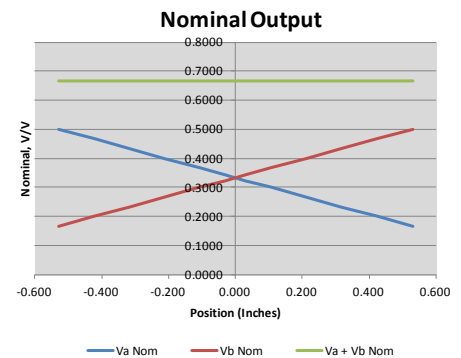
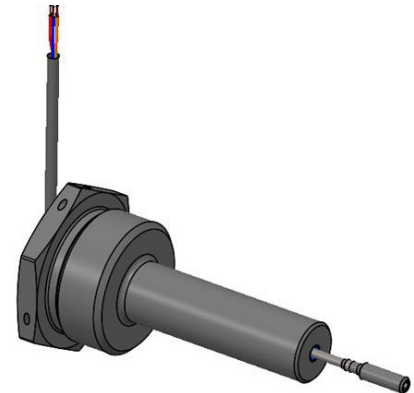
- **Input Voltage:** Typical 3-7 VAC, Frequency 2Khz-5Khz
- **Sensing Stroke:** Various
- **Accuracy:** $\pm 1.0\%$ Full Scale for Ratiometric Output
- **Temperature Range:** -65°F (-54°C) up to $+464^{\circ}\text{F}$ ($+240^{\circ}\text{C}$)
- **Pressure Rating:** 3,200 PSI (220 Bar) Burst as Shown,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

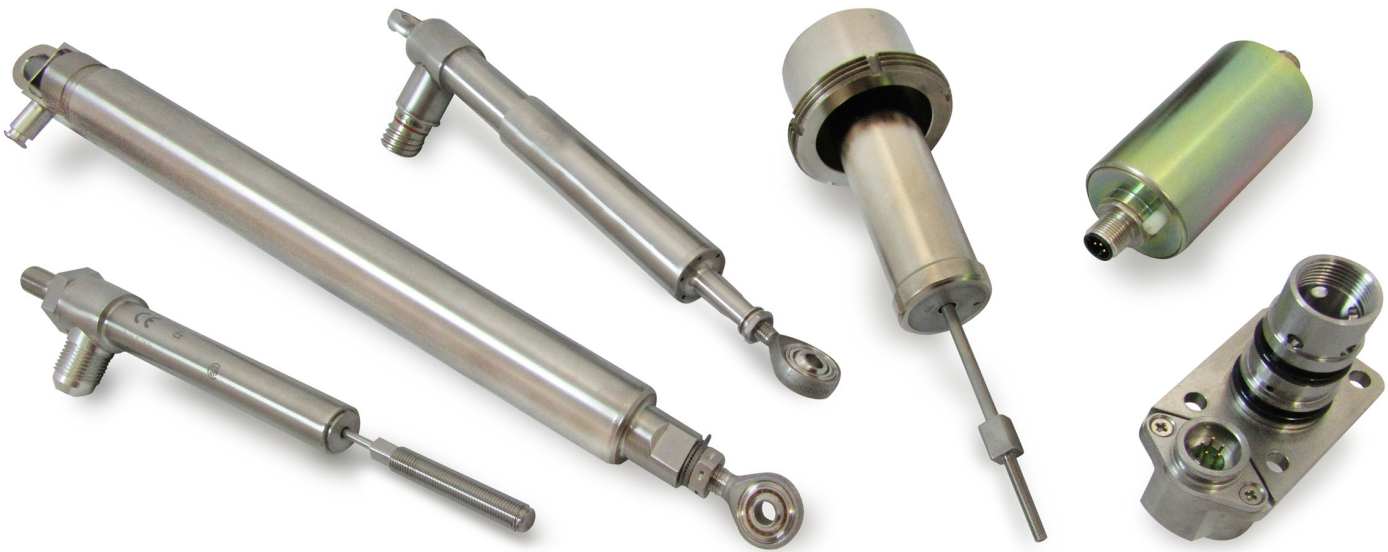


RCTA/DO 160G	Section	Category
Shock	7	B - with a level of 20 g for an 11 msec pulse
Explosion Proof	9	E
Humidity	6	C
Sand & Dust	12	D
Waterproof	10	R
Salt Spray	14	S
Fungus	13	F

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LISK custom 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.

LISK's engineering team has over 120 years of combined design experience to provide the most cost-effective solutions and meet our customer's most demanding requirements for every application.



About G.W. Lisk Company

LISK is a global leader in the design and manufacture of custom solenoids, solenoid valves, LVDTs, and flame arrestors, providing custom-engineered solutions to customers in diverse markets including military, aerospace, on-highway, off-highway, and medical. We provide custom-engineered products and solutions to help customers meet demanding operational and strict environmental requirements in the following areas:

- Application Solutions
- Hardware Engineering
- Mechanical Design & Development
- Rapid Prototyping
- Qualification Testing
- Industry Certifications
- Vertical Integration (Manufacturing)
- Serial Production

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