

Series F pen LVDT Displacement Sensor

Product Introduction

Differential transformer displacement sensors (LVTD) can be widely used in aerospace, machinery, construction, textiles, railways, coal, metallurgy, plastics, chemical and scientific research institutions and other industries in the national economy to measure displacement, deformation, and size. , Vibration, object thickness, expansion and other high-precision position sensors, F10, F25, F50 series pen-type rebound LVDT displacement sensors have excellent performance and are suitable for high-precision, high-repeatability displacement measurement in quality control and metering applications. The probe uses high-hardness, wear-resistant material silicon oxide. The moving part of the axis adopts precision guide rail, and the sensor is equipped with a transformer 12-24VDC power supply. The electronic circuit is sealed in a 304 stainless steel metal tube, which can work stably for a long time in harsh environments such as humidity and dust. The output signal is a standard 0-5V or 4-20MA output that can be used by a computer or PLC, or RS485 digital signal

Product parameters:

Power supply: 12-24V

Working current: voltage output type supply current: $\leq 12\text{MA}$

Two-wire current output type, power supply current 4-20MA

Displacement range: F10: 0-2.5mm; F25: 0-5mm; F50: 0-10mm

Output signal: 0-5V, 0-10V, 4-20Ma, RS485 digital signal

Linearity error $\leq 0.25\%\text{FS}$

Weight error $\leq 5\mu\text{m}$

Resolution $\leq 0.1\mu\text{m}$

Dynamic characteristics: 3HZ

Measuring force: 80g

Working temperature: -25 °C to + 85 °C

Impact resistance: 250g/11ms

Vibration allowed: 10g/2KHZ

Temperature coefficient: zero point $\leq 0.01\% / ^\circ\text{C}$

Sensitivity $\leq 0.025\% / ^\circ\text{C}$