

FL series LVDT Displacement Sensors

Characteristic description

External diameter Φ 8mm, stainless steel 304 shell, rebound type

Built in precision linear bearing, good repeatability

The probe is made of silicon nitride ceramic ball with high resolution and good wear resistance

DC single power supply, built-in high-performance signal demodulator

Product size is short, suitable for use in small space

✘ Application field

Robot shaft diameter detection precision displacement measurement glass production detection automobile parts detection

✘ Performance parameter

Power supply:	12—24V DC;
Working current:	Voltage output type, power supply current \leq 12mA; Two wire current output type, supply current 4-20mA
Displacement range:	F10 : 0-2.5mm / F25: 0-5mm / F50: 0 -1 0 mm
Output signal:	0-5V ; 0-10V ; 4-20mA ; RS485 digital signal
Linear error:	Analog signal output: 0.25% FS Digital signal output: 0.1% FS
Repeat error:	\leq 1um
Resolution :	\leq 0.1um
Dynamic characteristics:	10HZ
Measurement force:	80g
Operating temperature:	-25 °C — +85 °C
Shock resistance:	250g/11 ms
Vibration tolerance:	10g/2KHZ
Temperature coefficient:	Zero point \leq 0.01%/ ° C; Sensitivity \leq 025%/ ° C