

- Frictionless measurement
- Infinite mechanical life
- Infinite resolution
- Durable and sturdy
- High environmental adaptation
- High repeatability



SPECIFICATION

- | | | | |
|-----------------------|---|----------------------------|-----------------|
| ◆ Power supply: | 12~24VDC | ◆ Resolution power: | ≤ 0.1μm |
| ◆ Working current: | Voltage output type supply current ≤ 12mA
Two wire current output type.
Supply current 4-20mA | ◆ Dynamic characteristics: | 10HZ |
| ◆ Displacement range: | 2mm/ 5mm/ 10mm | ◆ Measuring force: | 80g |
| ◆ Output signal: | 0-5V; 0-10V; 4-20mA; RS-485 | ◆ Working temperature: | -25°C~+85°C |
| ◆ Linear error: | Analog signal output: 0.25% FS
Digital signal output: 0.1% FS | ◆ Impact resistance: | 250g/11ms |
| ◆ Repetition error: | ≤ 1 μm | ◆ Allowable vibration: | 10g/2KHZ |
| | | ◆ Temperature coefficient: | Zero ≤ 0.01%/°C |
| | | ◆ Sensitivity: | ≤ 0.25%/°C |

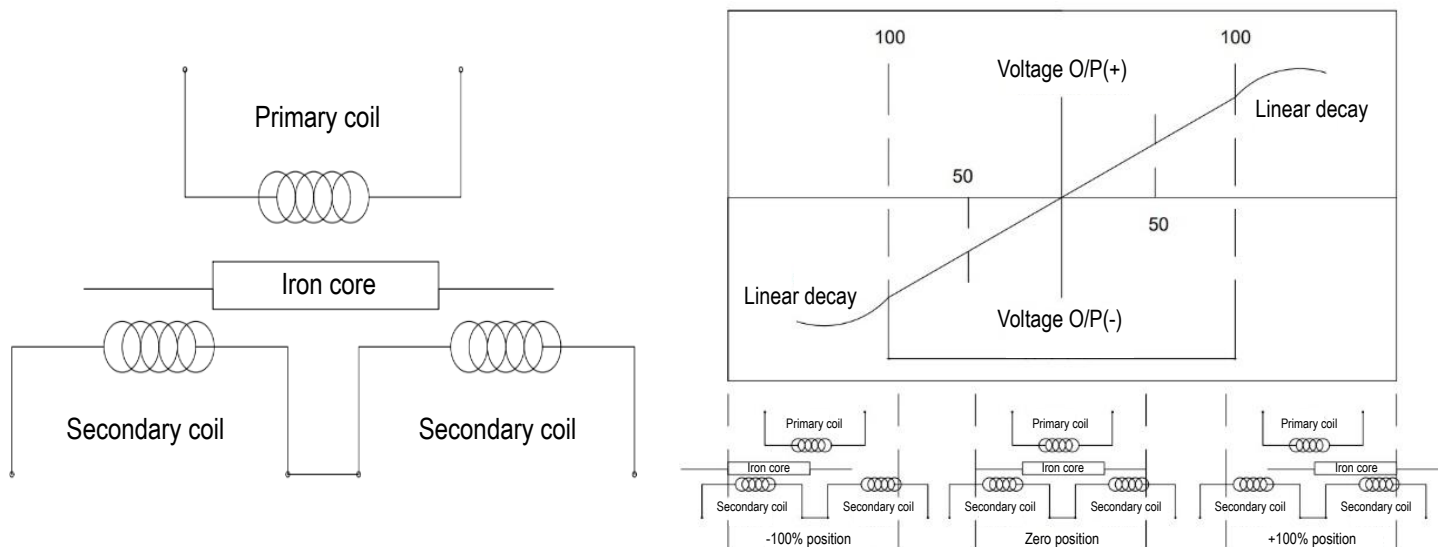
ORDER INFORMATION

CVDT8- [Code1] - [Code2] - [Code3]

Code1	Measuring range(mm)	Code2	Output Signal	Code3	Wire Method
	2, 5, 10	V1	0~5V Voltage	S1	Direct
		V2	0~10V Voltage	S2	Side
		A	4~20mA Current		
		Y	RS-485		

WORKING PRINCIPLE

The structure of LVDT consists of iron core, armature, primary coil and secondary coil, as shown in the following figure. The primary coil and the secondary coil are distributed on the bobbin, and there is a freely movable rod armature in the coil. When the armature is in the middle position, the induced electromotive forces generated by the two secondary coils are equal, so that the output voltage is 0; When the armature coil moves inside and deviates from the center position, The induced electromotive force generated by the two coils is not equal, and there is a voltage output, and its voltage depends on the displacement.



WIRING CONNECTION

The output voltage value of DC regulated power supply must be within the specified use range.

●Current signal output

Brown power supply (+) Current input (+)
Black power supply (-) Current output (-)

●Voltage signal output

Brown power supply (+)
Black voltage output (+)
Blue power supply (-) signal output (-)

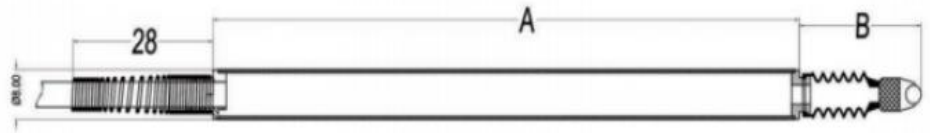
●RS485 output

Red power supply (+)
Black power supply (-)
Green RS-485 (A+)
White RS-485 (B -)

DIMENSION

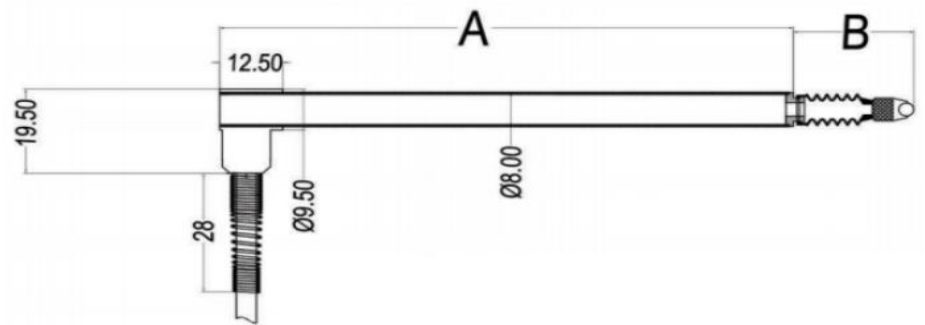
Dimension

Range (mm)	Size A (mm)	Size B (mm)
2	103	20
5	113	23
10	119	30

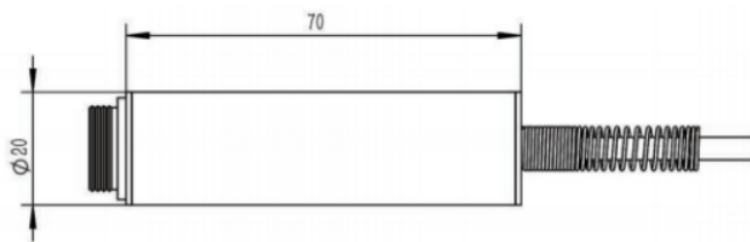


Dimension

Range (mm)	Size A (mm)	Size B (mm)
2	106	23
5	116	23
10	122	30



SIGNAL TRANSMITTER DIMENSION



INSTALLATION FIXTURE SIZE

