

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



SPECIFICATION

- | | | | |
|-----------------------|---|----------------------------|--|
| ◆ Power supply: | 12~24VDC | ◆ Resolving power: | $\leq 0.1\mu\text{m}$ |
| ◆ Working current: | Voltage output type supply current $\leq 12\text{mA}$
Two wire current output type.
Supply current 4-20mA | ◆ Dynamic characteristics: | 200HZ |
| ◆ Displacement range: | 5mm/ 10mm/ 25mm/ 50mm/
100mm/ 250mm/ 500mm | ◆ Measuring force: | 80g |
| ◆ Output signal: | 0-5V; 0-10V; 4-20mA; RS-485 | ◆ Working temperature: | $-25^{\circ}\text{C}\sim+85^{\circ}\text{C}$ |
| ◆ Linear error: | Analog signal output: 0.25% FS
Digital signal output: 0.1% FS | ◆ Impact resistance: | 250g/11ms |
| ◆ Repetitive error: | $\leq 1\mu\text{m}$ | ◆ Allowable vibration: | 10g/2KHZ |
| | | ◆ Temperature coefficient: | Zero $\leq 0.01\%/^{\circ}\text{C}$ |
| | | ◆ Sensitivity: | $\leq 0.25\%/^{\circ}\text{C}$ |

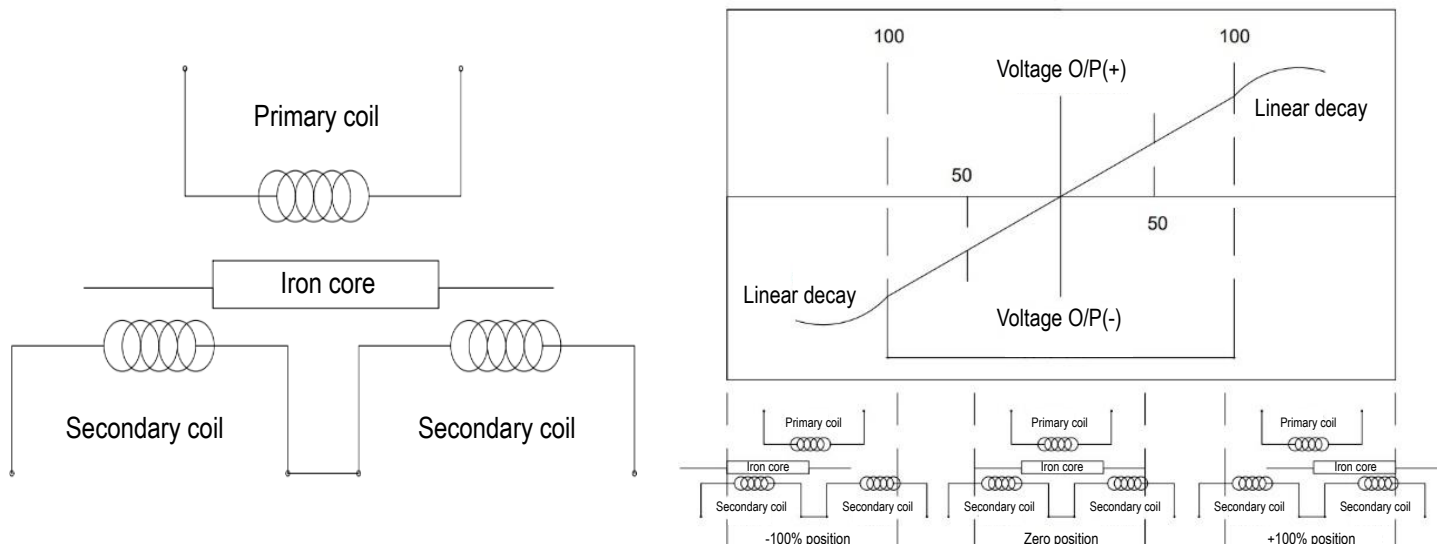
ORDER INFORMATION

CVDT20- Code1 - Code2

Code1	Measuring range(mm)	Code2	Output Signal
	2, 5, 10	V1	0~5V Voltage
		V2	0~10V Voltage
		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

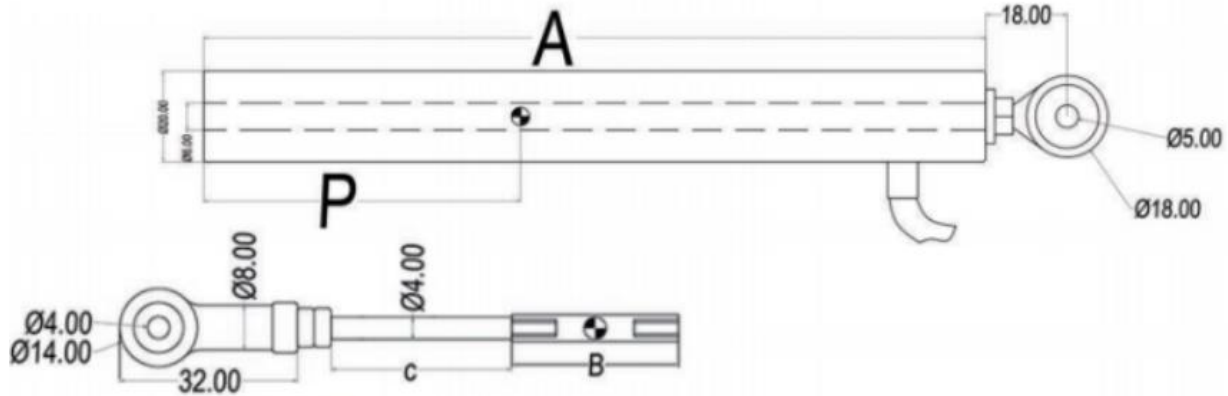
Red power supply (+)

Black power supply (-)

Green RS-485 (A+)

White RS-485 (B -)

DIMENSION



Dimension

Model	Working Range(mm)	Shell Size A(mm)	Core Length B(mm)	Electrical Zero Position P Connecting(mm)	Rod Length C (mm)
5	5	153	30	51	41
10	10	173	40	61	48.5
25	25	229	70	89	69
50	50	279	92	114	95.5
100	100	377	145	163	143
250	250	585	229	267	282.5
500	500	850	300	381	380

INSTALLATION FIXTURE SIZE

