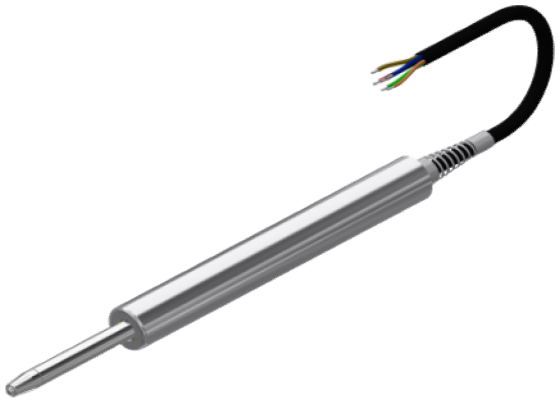
HD-T120 AC Series
Spring-loaded LVDT

The HD-T120 AC Series spring-loaded LVDTs are high-precision AC-output sensors with <0.25% linearity, <0.1% repeatability, and infinite resolution. Housed in a stainless steel 12 mm IP65 body, they offer standard strokes from 10 mm to 50 mm (customizable). A precision linear bearing, hardened tip, and built-in shielding ensure smooth movement, >10^7 cycles life, and EMI protection. Standard M2.5 threaded tip enables easy replacement. Ideal for precision dimensional gaging, online parts inspection, high-repeatability comparison, and pressure vessel monitoring.



FEATURES

- Precision linear bearing spring-loaded mechanism, springback silky smooth, no stuck
- Precision honed shaft and bearing for excellent repeatability
- Hardened measuring shaft for longer service life
- Polyurethane sheathed cable for long-term use on tow chains

GREAT FOR

- Precision dimensional measurement
- Parts online testing
- High repeatability measurement
- Pressure vessel deformation monitoring

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-T120-100-AC	10	120
HD-T120-150-AC	15	80
HD-T120-200-AC	20	60
HD-T120-250-AC	25	48
HD-T120-300-AC	30	40
HD-T120-500-AC	50	24

All values are nominal unless otherwise noted. Dimensions are in mm unless otherwise noted

FR: Full Range is the stroke range, end to end; FR= S for 0 to S stroke range

FRO (Full Range Output): Algebraic difference in outputs measured at the ends of the range

Electrical

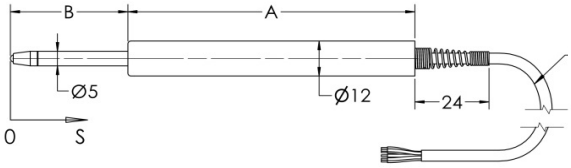
Power s Supply	3 V rms(1~7V rms Optional)
Input Frequency	2.5KHz (400~10KHz Optional)
Zero voltage	< 20mV
Non-linearity (maximum)	<0.25%
Repeatability	< 0.1%
Operating Temperature	-20℃...85℃
TC of Sensitivity	< 0.01%℃
Structure	High Accuracy <0.25%
Wiring	6-core Teflon cable or wire
Shock	1000g,11ms
Vibration	20g@2000Hz
Displacement Cycle	> 10^6 cycles
Springback Force	300g (Customizable)
Mechanical Response	10Hz~200Hz@20℃

Version | 01.2026

The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

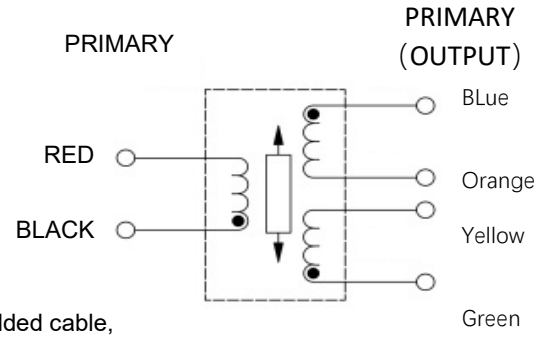
Dimension [mm]

Code	Dim "A"	Dim "B"
HD-T120-100-AC	77	25
HD-T120-150-AC	92	30
HD-T120-200-AC	114	35
HD-T120-250-AC	127	40
HD-T120-300-AC	149	45
HD-T120-500-AC	204	65



6-core shielded cable,
length 1.5m

Wiring



ORDERING INFORMATION

HD - T 120 - 100 - AC

Structure	
T	Spring-loaded

Output	
AC	AC output

Outer Diameter	
120	12mm

Stroke Range	
Code	Stroke
100	10mm
150	15mm
200	20mm
250	25mm
300	30mm
500	50mm
Customizable Range	

Version | 01.2026