HD-T120 DC Series
Spring-loaded LVDT

The HD-T120 DC Series spring-loaded LVDTs are high-precision DC-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. Multiple DC outputs (0-5 V, 0-10 V, ±5 V, ±10 V, 4-20 mA) are available. 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)
HD-T120-100-XX	10
HD-T120-150-XX	15
HD-T120-200-XX	20
HD-T120-250-XX	25
HD-T120-300-XX	30
HD-T120-500-XX	50

Note:

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	±15VDC	13~28VDC
Output Singal	±5V/±10V	0-5V/0-10V/2-10V/4-20mA
Non-linearity (maximum)	<0.25%	
Repeatability	0.10%	
Operating Temperature	-20℃...85℃	
TC of Sensitivity	< 0.01%℃	
Structure	Springback	
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

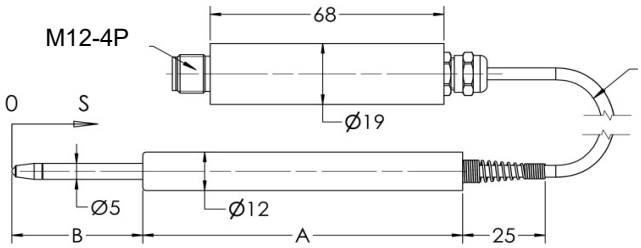
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

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

Wiring

Connector	Output Singal	Wiring
M12	0-5V/0-10V/2-10V/ 4-20mA/ ±5V/±10V	Pin1 Brown Pin2 White Pin3 Blue Pin4 Black



6-core shielded cable,

ORDERING INFORMATION

HD - T 120 - 100 - 0-5V

Structure	
T	Spring-loaded

Outer Diameter	
120	12mm

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

Output
0-5V
0-10V
2-10V
±5V
±10V
4-20mA

Version | 01.2026