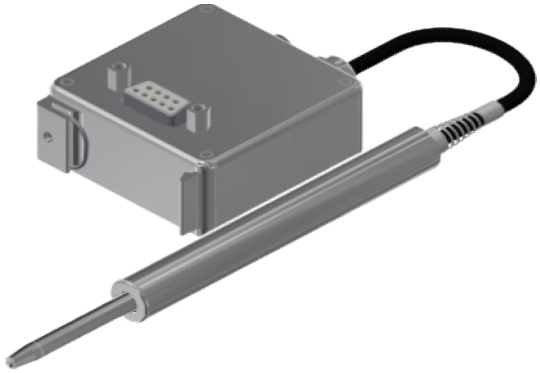
HD-T120 RS485 Series
Spring-loaded LVDT

The HD-T120 RS485 Series spring-loaded LVDTs feature RS485 digital output, <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. RS485 interface enables direct connection to PLCs or data acquisition systems. 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-RS485	10
HD-T120-150-RS485	15
HD-T120-200-RS485	20
HD-T120-250-RS485	25
HD-T120-300-RS485	30
HD-T120-500-RS485	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	9~28VDC
Output Singal	RS485
Non-linearity (maximum)	<0.25%
Repeatability	0.10%
Operating Temperature	-20℃...85℃
TC of Sensitivity	< 0.01%℃
Structure	Springback
Wiring	D89 Female Coonnector
Shock	1000g,11ms
Vibration	20g@2000Hz
Displacement Cycle	> 10^6 cycles
Springback Force	1200g (Customizable)
Mechanical Response	10Hz~200Hz@20℃

Version | 01.2026

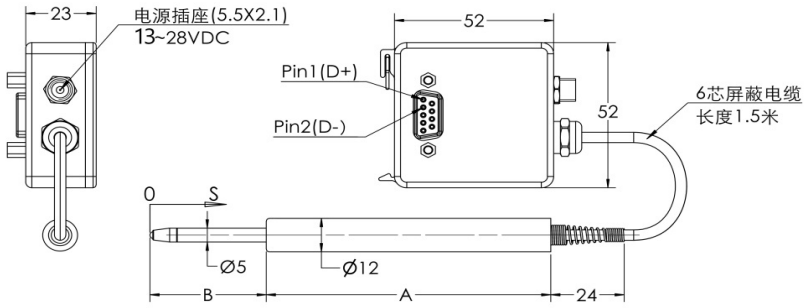
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	Dim "A"	Dim "B"
HD-T120-100-RS485	77	25
HD-T120-150-RS485	92	30
HD-T120-200-RS485	114	35
HD-T120-250-RS485	127	40
HD-T120-300-RS485	149	45
HD-T120-500-RS485	204	65

Wiring

Connector	Output Singal	Wiring
D89 Female Coonnector	RS485	Pin1 D+ Pin2 D-



ORDERING INFORMATION

HD - T 120 - 100 - RS485

Structure	
T	Spring-loaded

Outer Diameter	
120	12mm

Output
RS485

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

Version | 01.2026