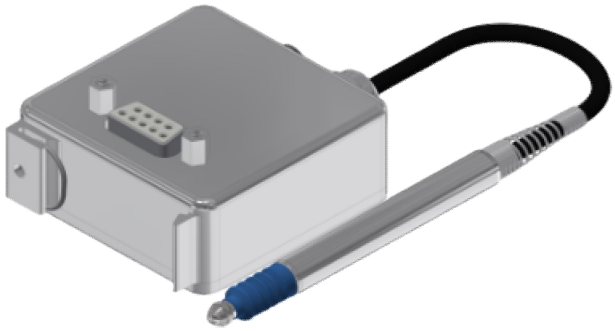
HD-T080 RS485 Series
Spring-loaded LVDT

The HD-T080 RS485 Series spring-loaded LVDTs feature RS485 digital output, <0.25% linearity, <0.1% repeatability, and infinite resolution. Housed in a stainless steel 8 mm IP65 body, they offer standard strokes from 1 mm to 15 mm (customizable). A precision linear bearing, triple-shielding, and split structure ensure smooth movement, EMI protection, and easy installation. Tip accuracy up to 0.5 µm, >10^7 cycle life, M2.5 threaded tip. Ideal for precision dimensional gaging, online inspection, high-repeatability comparison, and pressure vessel monitoring.



FEATURES

- Ultra-precision measuring tip，Upto 0.5µm accuracy
- Precision linear bearing spring-loaded mechanism, smooth, no stuck
- Triple-shielded LVDT design for EMI protection
- Polyurethane cable rated for long-term use in drag chains
- Fluoroelastomer sheath offering high temperature and chemical resistance
- Standard M2.5 threaded tip for easy replacement
- The split structure is optional and facilitates installation.

GREAT FOR

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

SPECIFICATIONS

Performance

Code	Stroke Range (mm)
HD-T080-010-RS485	1
HD-T080-020-RS485	2
HD-T080-050-RS485	5
HD-T080-100-RS485	10
HD-T080-150-RS485	15

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	70g±20% @ Midpoint position of the travel distance
Mechanical Response	10Hz~200Hz@20℃
IP Grade	IP65

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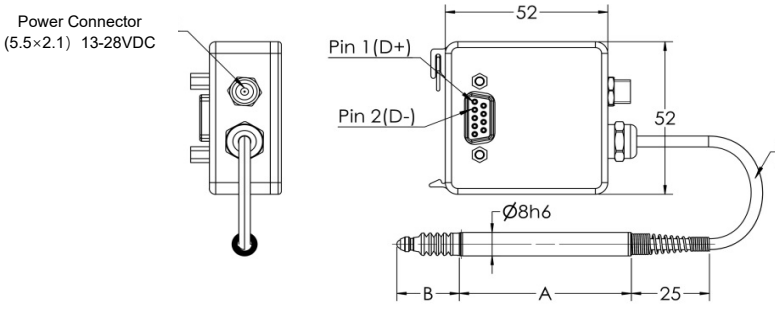
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	"A"	"B"
HD-T080-010-RS485	45	15
HD-T080-020-RS485	45	20
HD-T080-050-RS485	55	29
HD-T080-100-RS485	77	36
HD-T080-150-RS485	85	43

Wiring

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



6-core shielded cable,
length 1.5m

ORDERING INFORMATION

HD - T 080 - 100 - RS485

Structure	
T	Spring-loaded

Outer Diameter	
080	8mm

Output
RS485

Stroke Range	
Code	Stroke
010	1mm
020	2mm
050	5mm
100	10mm
150	15mm
Customizable Range	

Optional accessories
1. Installation bracket
2. Iron core connecting rod (customizable)

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