HD-HP-120-DC Series
High Pressure LVDT

Built for high-pressure hydraulic systems up to 42 MPa, the HD-HP-120 DC Series LVDT features a one-piece pressure tube and ED-seal structure for zero leakage. Stainless steel housing and built-in shielding ensure reliable performance in harsh environments. Split-core design simplifies installation in tight spaces. Available with M12 connector and multiple analog outputs (0-5V, 0-10V, ±5V, ±10V, 4-20mA) for seamless PLC integration. Eight standard strokes from 20 mm to 300 mm, with custom sizes available. Ideal for servo cylinders, servo pumps, injection molding machines, CNC machine tools, construction machinery, and hydraulic systems.



FEATURES

- Split core and rod, easy installation
- All stainless steel housing
- One-piece pressure tube, leak-proof
- ED-seal ring structure
- Built-in shielding, strong anti-interference
- Compact structure, cost-effective

GREAT FOR

- Servo cylinders
- Servo pumps
- Injection molding machines
- CNC machine tools
- Construction machinery
- Hydraulic systems

SPECIFICATIONS

Performance

Code	Stroke Range (mm)
HD-HP-120-200-XX	20
HD-HP-120-300-XX	30
HD-HP-120-500-XX	50
HD-HP-120-1000-XX	100
HD-HP-120-1500-XX	150
HD-HP-120-2000-XX	200
HD-HP-120-2500-XX	250
HD-HP-120-3000-XX	300

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)	<0.3%	
Repeatability	< 0.1%	
Operating Temperature	-20℃...85℃	
TC of Sensitivity	< 0.015%℃	
Structure	Separate structure	
Wiring	M12 connector and cable	
Shock	1000g,11ms	
Vibration	20g@2000Hz	
Working pressure	42MPa	
Mechanical Response	400Hz	

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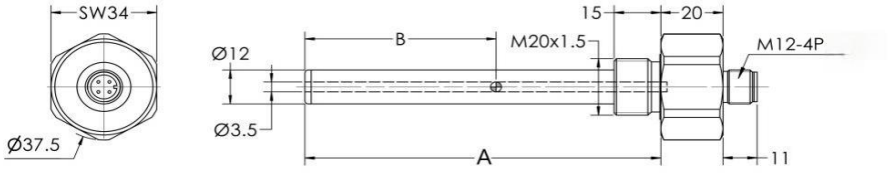
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

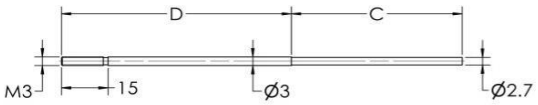
Dimension [mm]

Code	Dim "A"	Dim "B"	Dim "C"	Dim "D"
HD-HP-120-200-XX	54.5	31.5	25	Custom sizes available
HD-HP-120-300-XX	74.5	41.5	35	
HD-HP-120-500-XX	114.5	61.5	55	
HD-HP-120-1000-XX	184.5	96.5	75	
HD-HP-120-1500-XX	264.5	136.5	102	
HD-HP-120-2000-XX	314.5	161.5	102	
HD-HP-120-2500-XX	369.5	189	102	
HD-HP-120-3000-XX	429.5	219	120	

Wiring

Connector	Output Singal	Wiring
M12	0-5V/0-10V/2-10V/ 4-20mA/ ±5V/±10V	Pin 1 Brown Pin2 White Pin3 Blue Pin4 Black
	Pin1 Power In Pin4 Signal Out Pin4 Signal Com Pin3 Power Com	





Core

ORDERING INFORMATION

HD - HP - 120 - 200 - 0-5V

Structure	
HP	High Pressure Type

Outer Diameter	
120	12mm

Stroke Range	
Code	Stroke
200	20mm
300	30mm
500	50mm
1000	100mm
1500	150mm
2000	200mm
2500	250mm
3000	300mm
Customizable Range	

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

Accessories

1.M12 connector and cable

2.Core connecting rod (Customizable)

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