HD-270 DC Series
LVDT for Valves

Designed for proportional/servo valve spool feedback, the HD-270 DC Series LVDT features a 27 mm diameter with M14×1.5 threaded pressure tube for direct valve mounting — no extra bracket needed. One-piece pressure tube with ED-seal withstands 50 MPa with zero leakage, while 400 Hz mechanical response ensures accurate dynamic sensing. Split-core design simplifies installation, and built-in shielding ensures reliable operation. Available in 8 strokes from 6 mm to 50 mm, with M12 connector and multiple analog outputs (0-5V, 0-10V, ±5V, ±10V, 4-20mA) for seamless system integration. Ideal for proportional valves, servo valves, directional control valves, die-casting machines, injection molding machines, CNC machine tools, and construction machinery.



FEATURES

- Designed for proportional/servo valves
- Split-core design, 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

- Proportional valves
- Servo valves
- Directional control valves
- Die-casting machines
- Injection molding machines
- CNC machine tools
- Construction machinery
- Hydraulic systems

SPECIFICATIONS

Performance

Code	Stroke Range (mm)
HD-270-060-M14-XX	6
HD-270-150-M14-XX	15
HD-270-200-M14-XX	20
HD-270-250-M14-XX	25
HD-270-300-M14-XX	30
HD-270-350-M14-XX	35
HD-270-400-M14-XX	40
HD-270-500-M14-XX	50

Electrical

Power s Supply	±15VDC	13~28VDC
Output Singal	±5V/±10V	0-5V/0-10V/2-10V/4-20mA
Non-linearity (maximum)	<0.6%	
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	50MPa	
Mechanical Response	400Hz	

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

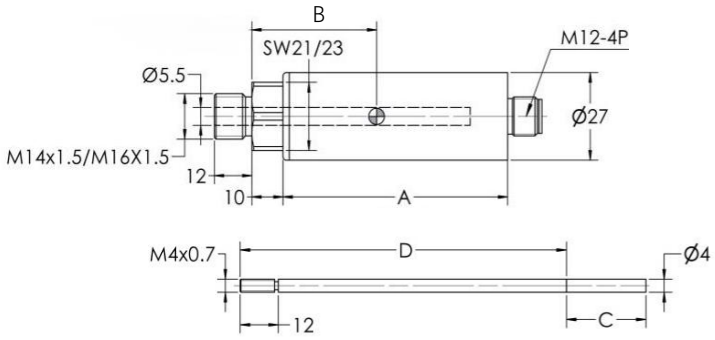
FRO (Full Range Output): Algebraic difference in outputs measured at the ends of the range

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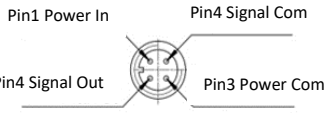
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	Dim "A"	Dim "B"	Dim "C"	Dim "D"
HD-270-060-M14-XX	58	47.5	16	Custom sizes available
HD-270-150-M14-XX	58	47.5	16	
HD-270-200-M14-XX	67	52	25	
HD-270-250-M14-XX	72	54.5	25	
HD-270-300-M14-XX	77	57	25	
HD-270-350-M14-XX	83	59.5	25	
HD-270-400-M14-XX	92	64.5	30	
HD-270-500-M14-XX	112	74.5	40	



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
		

ORDERING INFORMATION

HD - 270 - 060 - M14 - 0-5V

Outer Diameter	
270	27mm

Stroke Range	
Code	Stroke
060	6mm
150	15mm
200	20mm
250	25mm
300	30mm
350	35mm
400	40mm
500	50mm
Customizable Range	

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

Mounting Type	
M14	M14×1.5 Pressure Tube

※ Customizable pressure tube upon request
※ Customizable connecting rod upon request

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