HD-360 DC Series
LVDT for Directional Control Valves

Built for excavators, loaders, and construction equipment, the HD-360 DC Series LVDT is designed for harsh multi-way valve applications. Split rod/core allows flexible installation; the removable coil enables quick field servicing without full disassembly. One-piece housing and pressure tube withstand 42 MPa, with magnetic shielding for interference immunity. Built-in DC conditioning provides direct analog outputs (0-5V, 0-10V, ±5V, ±10V, 4-20mA) for seamless PLC integration. Available in 8–50 mm strokes. Ideal for directional valves, excavators, loaders, and centralized hydraulic systems.



FEATURES

- For multi-way solenoid valves
- Split rod/core, easy install
- Removable coil, easy service
- Rugged one-piece construction
- Magnetic shielding
- Built-in DC conditioning
- Multiple analog outputs

GREAT FOR

- Directional valves
- Excavators
- Loaders
- Construction equipment
- Military systems
- Centralized hydraulics

SPECIFICATIONS

Performance

Code	Stroke Range (mm)
HD-360-080-XX	8
HD-360-160-XX	16
HD-360-240-XX	24
HD-360-300-XX	30
HD-360-500-XX	50

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)	<0.6%	
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	42MPa	

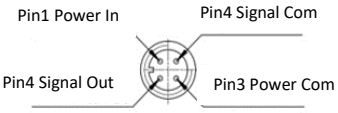
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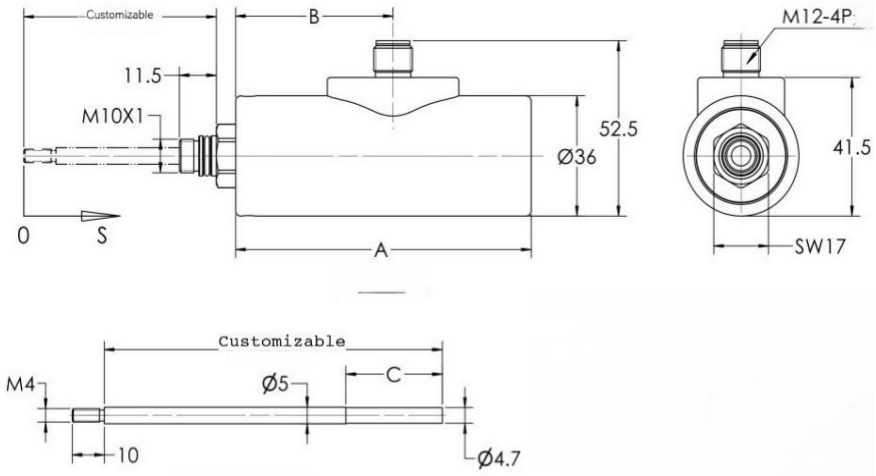
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	Dim "A"	Dim "B"	Dim "C"
HD-360-080-XX	69	37.5	25
HD-360-160-XX	69	37.5	25
HD-360-240-XX	92	49	35
HD-360-300-XX	92	49	35
HD-360-500-XX	118	62	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 - 360 - 080 - 0-5V

Outer Diameter	
360	36mm

Stroke Range	
Code	Stroke
080	8mm
016	16mm
024	24mm
030	30mm
050	50mm
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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