HD-HP-190 AC Series
High Pressure LVDT

The HD-HP-190 AC Series LVDTs are designed for high-pressure hydraulic applications. Fully sealed stainless steel construction withstands 50MPa. 19 mm diameter body with M22×1.5 mounting thread and ED seal for easy, leak-proof installation. Split core and rod design simplifies assembly. Standard strokes from 12.7 mm to 50 mm (customizable). Dual shielding provides EMI immunity; innovative winding shortens length. Accuracy <0.3% FS, repeatability <0.1%. Operating temperature from -50℃ to +155℃ (high-temp option to +240℃). Ideal for hydraulic actuators, vessels, valves, and cylinders.



FEATURES

- Fully sealed structure, shock and vibration resistance
  Pressure upto 50MPa
- All stainless structure, strong corrosion resistance
- Separate core connecting rod design
- With M22X1.5 mounting thread
- ED sealing ring structure, good sealing effect
- Double magnetic shielding
- New winding design, shorter product length

GREAT FOR

- Hydraulic actuators
- Hydraulic vessel
- Solenoid valve
- Hydraulic cylinder

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-HP-190-127-AC	12.7	75
HD-HP-190-150-AC	15	60
HD-HP-190-200-AC	20	50
HD-HP-190-300-AC	30	32
HD-HP-190-400-AC	40	25
HD-HP-190-500-AC	50	20

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

Input	3 V rms(1~7V rms Optional)
Input frequency	2.5KHz (400~10KHz Optional)
Zero point voltage	< 20mV
Non-linearity	<0.3%
Repeatability	< 0.1%
Operating Temperature	Common type: -50℃~ +155℃
	High temperature type: -50℃~ +240℃
TC of sensitivity	< 0.015%FS/℃
Structure	Split Structure
Wiring	Teflon Wire or Shielded Cable
Shock survival	1000g,11ms
Vibration tolerance	20g@2000Hz
Working pressure	50MPa

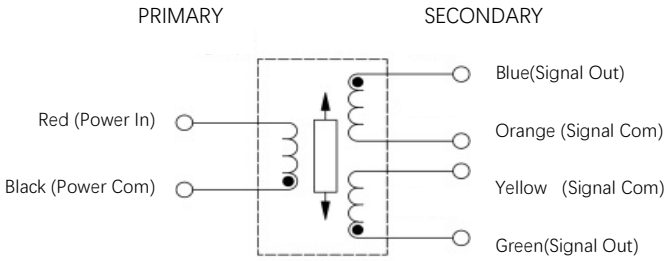
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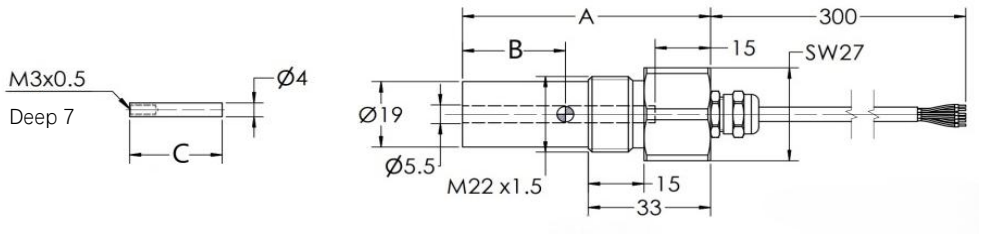
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	"A"	"B"	"C"
HD-HP-190-127-AC	47	16	19
HD-HP-190-150-AC	53	20	22
HD-HP-190-200-AC	67	25	29
HD-HP-190-300-AC	77	30	34
HD-HP-190-400-AC	97	35	44
HD-HP-190-500-AC	112	40	51.5

Wiring





ORDERING INFORMATION

HD - HP 190 - 127 - AC

Structure	
HP	High Pressure Type

Outer Diameter	
190	19mm

Output	
AC	AC output

Stroke Range	
Code	Stroke
127	12.7mm
120	15mm
200	20mm
300	30mm
400	40mm
500	50mm
Customizable Range	

Accessories

1.M12 connector and cable

2.Core connecting rod (Customizable)

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