HD-190-AC Series
General Purpose LVDT

The HD-190-AC Series general-purpose AC LVDTs are designed for industrial displacement and position feedback applications. Available in stroke ranges from 20 mm to 500 mm (customizable). 19 mm diameter stainless steel housing with separate core and coil assembly for easy installation. Typical linearity <0.3% FS, repeatability <0.1%. Operating temperature from -50 ℃ to +155 ℃ (high-temp option to +240 ℃). Dual shielding provides EMI/ESD immunity; compact winding design. Ideal for steam turbines, hydraulic cylinders, oil presses, machine tools, material testing, metallurgical and mining machinery.



FEATURES

- Stainless steel housing
- Shock and vibration tolerant
- Anti-electromagnetic and static interference
- Work reliably in harsh environments
- New winding design, compact size

GREAT FOR

- Steam turbine
- Hydraulic cylinder
- Oil press
- Machine tools
- Material testing machine
- Metallurgical machinery
- Mining machinery

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-190-200-AC	20	50
HD-190-300-AC	30	35
HD-190-500-AC	50	20
HD-190-1000-AC	100	10
HD-190-1500-AC	150	8
HD-190-2000-AC	200	6
HD-190-2500-AC	250	4.8
HD-190-3000-AC	300	4
HD-190-4000-AC	400	3
HD-190-5000-AC	500	2.4

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

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

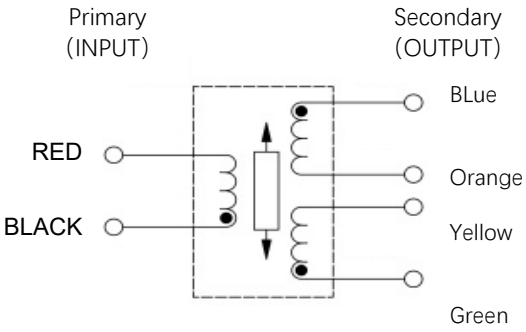
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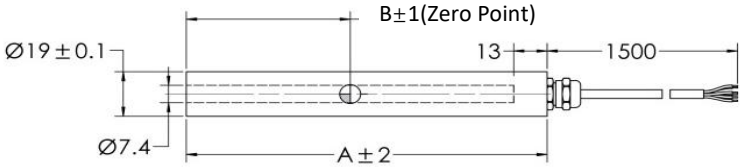
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

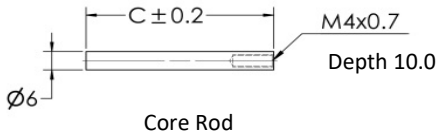
Dimension [mm]

Code	Dim "A"	Dim "B"	Dim "C"
HD-190-200-AC	68	27.5	25
HD-190-300-AC	88	37.5	35
HD-190-500-AC	113	50	40
HD-190-1000-AC	198	92.5	75
HD-190-1500-AC	278	132.5	102
HD-190-2000-AC	328	157.5	102
HD-190-2500-AC	383	185	102
HD-190-3000-AC	443	215	120
HD-190-4000-AC	618	302.5	195
HD-190-5000-AC	738'	362.5	215

Wiring







ORDERING INFORMATION

HD - 190 - 200 - AC

Output	
AC	AC output

Outer Diameter	
190	19mm

Stroke Range	
Code	Stroke
200	20mm
300	30mm
500	50mm
1000	100mm
1500	150mm
2000	200mm
2500	250mm
3000	300mm
4000	400mm
5000	500mm
Customizable Range	

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