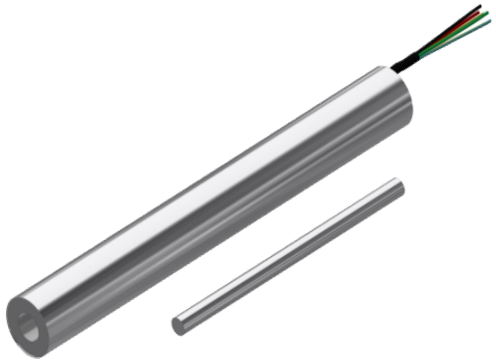
HD-HR-AC Series
General Purpose LVDT

Need versatile LVDT feedback for turbines, presses, or test rigs? The HD-HR AC Series is a general-purpose LVDT with split-core design for easy installation, rugged metal housing, and double shielding for reliable operation in harsh environments. Available in 12 stroke ranges from ±1.27 mm to ±254 mm — fully compatible with HR series for drop-in replacement. Built for heavy-duty industrial feedback.



FEATURES

- General-purpose linear displacement sensor
- Split-core design, easy installation
- Metal housing, shock & vibration resistant
- Double-shielded against EMI and ESD
- Reliable in high-temperature, humidity & dust
- Wide frequency excitation, high sensitivity & reliability
- Drop-in replacement for HR series LVDT

GREAT FOR

- Steam turbines
- Hydraulic cylinders
- Hydraulic presses
- Machine tools
- Material testing machines
- Metallurgical machinery
- Mining machinery

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-HR050-AC	±1.27	230
HD-HR100-AC	±2.54	165
HD-HR200-AC	±5.08	91
HD-HR300-AC	±7.62	51
HD-HR500-AC	±12.7	25.6
HD-HR1000-AC	±25.4	14.2
HD-HR2000-AC	±50.8	8.3
HD-HR3000-AC	±76.2	91
HD-HR4000-AC	±101.6	7.1
HD-HR5000-AC	±127	5.5
HD-HR7500-AC	±190.5	7.6
HD-HR10000-AC	±254	2.8

Electrical

Power s Supply	3 V rms(1~7V rms Optional)
Input Frequency	2.5KHz (400~10KHz Optional)
Zero voltage	< 20mV
Non-linearity (maximum)	<0.25%
Repeatability	< 0.1%
Operating Temperature	-20℃...85℃
TC of Sensitivity	< 0.015%℃
Structure	Split Structure
Wiring	6-core Teflon cable or wire
Shock	1000g,11ms
Vibration	20g@2000Hz
Displacement Cycle	> 10^6 cycles

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

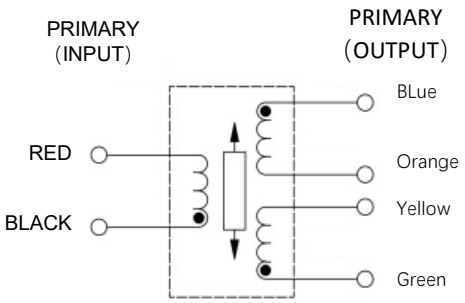
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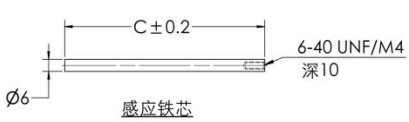
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

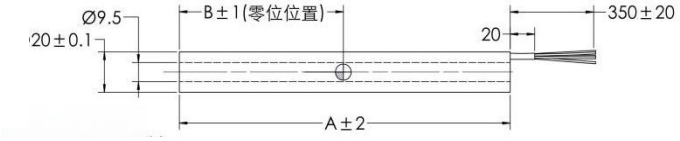
Dimension [mm]

Code	Dim "A"	Dim "B"	Dim "C"
HD-HR050-AC	28.70	14.35	20.30
HD-HR100-AC	46.00	23.00	33.00
HD-HR200-AC	63.50	31.75	41.90
HD-HR300-AC	81.80	40.90	49.50
HD-HR500-AC	139.70	69.85	87.60
HD-HR1000-AC	168.40	84.20	101.60
HD-HR2000-AC	254.00	127.00	134.60
HD-HR3000-AC	325.40	162.70	142.20
HD-HR4000-AC	397.30	198.65	177.80
HD-HR5000-AC	454.20	227.10	177.80
HD-HR7500-AC	454.20	306.00	177.80
HD-HR10000-AC	783.30	391.65	215.90

Wiring







ORDERING INFORMATION

HD - HR - 100 - AC

Structure	
HR	HR Series

Output	
AC	AC output

Stroke Range	
Code	Stroke
50	±1.27
100	±2.54
200	±5.08
300	±7.62
500	±12.7
1000	±25.4
2000	±50.8
3000	±76.2
4000	±101.6
5000	±127
7500	±190.5
10000	±254
Customizable Range	

Accessories

1.Mounting block

2.Core connecting rod（Customizable）

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