HD-M12-AC Series
General Purpose LVDT

Need wide-stroke feedback in a compact package?
The HD-M12 AC Series is a 12 mm general-purpose LVDT with innovative winding that shortens overall length while delivering ±10 to ±100 mm strokes. Split-core design, rugged metal housing, and double shielding ensure reliable operation in harsh environments.
Available in standard and high-precision versions, plus extended precision models (L-suffix) for demanding applications.



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
- Innovative winding, shorter length

GREAT FOR

- Steam turbines
- Hydraulic cylinders
- Hydraulic presses
- Machine tools
- Material testing machines
- Precision inspection equipment
- Bridge monitoring

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-M12-010-AC	±10	42
HD-M12-020-AC	±20	21.2
HD-M12-030-AC	±30	10
HD-M12-050-AC	±50	9.9
HD-M12-060-AC	±60	8.8
HD-M12-100-AC	±100	7.1
The following is the extended high-precision version.		
HD-M12-10L-AC	±10	42
HD-M12-25L-AC	±25	20
HD-M12-50L-AC	±50	9.9

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	3 V rms(1~7V rms Optional)
Input Frequency	2.5KHz (400~10KHz Optional)
Zero voltage	< 20mV
Non-linearity (maximum)	High Acc <0.1% ; Normal Acc <0.25%
Repeatability	< 0.1%
Operating Temperature	Common type: -50℃~ +155℃
	High temperature type: -50℃~ +240℃
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

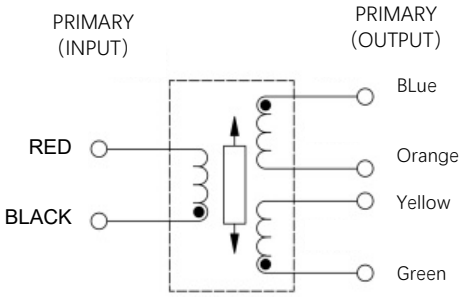
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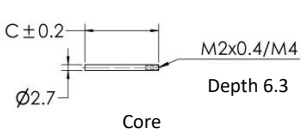
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

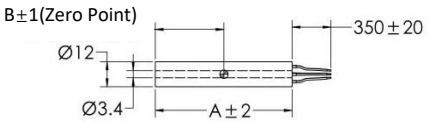
Code	Dim "A"	Dim "B"	Dim "C"
HD-M12-010-AC	67.00	33.60	36.00
HD-M12-020-AC	97.00	48.60	46.00
HD-M12-030-AC	117.00	58.60	46.00
HD-M12-050-AC	155.00	77.60	46.00
HD-M12-060-AC	200.00	100.10	60.00
HD-M12-100-AC	285.00	142.60	75.00
HD-M12-10L-AC	80.00	40.10	39.00
HD-M12-25L-AC	117.00	58.60	46.00
HD-M12-50L-AC	180.00	90.10	75.00

Wiring





Core



Body

ORDERING INFORMATION

HD - M12 - 100 - AC

Structure	
M12	M12 Series

Output	
AC	AC output

Stroke Range	
Code	Stroke
010	±10
020	±20
030	±30
050	±50
060	±60
100	±100
※ 10L	±10
※ 25L	±25
※ 50L	±50
Customizable Range	

Accessories

1.Mounting block

2.Core connecting rod (Customizable)

※ L = extended high-precision version.

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