HD-095V AC Series
Isobaric High-Temp LVDT/LVRT

Need reliable LVDT feedback inside hydraulic cylinders or high-pressure oil-filled cavities? The HD-095V AC Series is a 9.5 mm isobaric LVDT/LVRT with vented housing that allows full immersion in high-pressure oil — eliminating seal failure risks. Ultra-light core, LVDT or LVRT, 0.3–50.8 mm stroke, up to 240°C. Built for tight spots where oil, heat, and reliability matter.



FEATURES

- Stainless steel housing
- Ultra-light core, weight-sensitive
- Compact design, space-saving
- Innovative winding, shorter length
- Tight coupling, high sensitivity
- Magnetic shielding, strong anti-interference
- Full/half bridge (LVDT/LVRT) available

GREAT FOR

- Robotics
- Miniature pumps
- Medical equipment
- Hydraulic cylinders
- Linear actuator assemblies
- Space-limited and weight-sensitive installations

SPECIFICATIONS

Performance

Code	Stroke Range (mm)	Sensitivity,mV/V/mm
HD-095V-003-X-AC	0.3	124
HD-095V-005-X-AC	0.5	129
HD-095V-013-X-AC	1.3	172
HD-095V-025-X-AC	2.5	100
HD-095V-030-X-AC	3	100
HD-095V-050-X-AC	5	94
HD-095V-127-X-AC	12.7	68
HD-095V-200-X-AC	20	45
HD-095V-254-X-AC	25.4	67
HD-095V-300-X-AC	30	30
HD-095V-508-X-AC	50.8	27

Electrical

Input	3 V rms(1~7V rms Optional)
Input frequency	2.5KHz (2K~10KHz Optional)
Zero point voltage	< 20mV
Non-linearity	<0.25%
Repeatability	< 0.1%
Operating Temperature	Common type: -50℃~ +155℃
	High temperature type: -50℃~ +240℃
TC of sensitivity	< 0.01%FS/℃
Structure	Split Structure
Wiring	32AWG 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

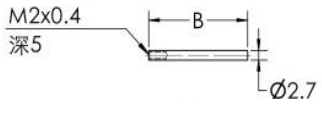
FRO (Full Range Output): Algebraic difference in outputs measured at the ends of the range

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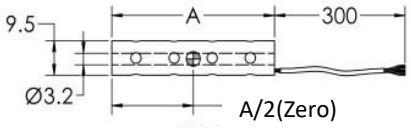
The information provided herein is, to the best of Hansensol's knowledge, true and accurate.
It is provided for guidance only, and all specifications are subject to change without prior notice.

Dimension [mm]

Code	Dim "A"	Dim "B"
HD-095V-003-X-AC	9.7	4.6
HD-095V-005-X-AC	13.7	5.8
HD-095V-013-X-AC	16.8	10.2
HD-095V-025-X-AC	20.7	12.7
HD-095V-030-X-AC	21	12
HD-095V-050-X-AC	25.4	15.7
HD-095V-127-X-AC	47	28.4
HD-095V-200-X-AC	54	25
HD-095V-254-X-AC	83.8	50.8
HD-095V-300-X-AC	80	30
HD-095V-508-X-AC	142.2	76.2

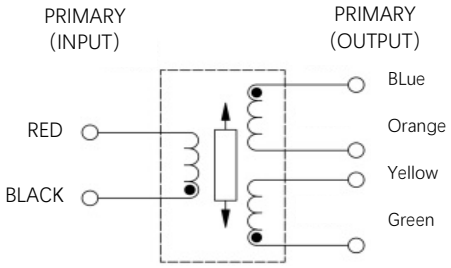


Core

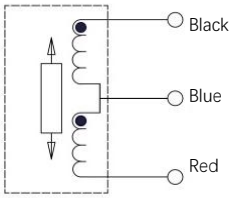


Body

Wiring



LVDT
Wiring (6 line)



LVRT
Wiring

ORDERING INFORMATION

HD - 095V - 003 - D - AC

Outer Diameter	
095V	9.5mm Isobaric, High-Temperature Type

Stroke Range	
Code	Stroke
003	0.3
005	0.5
013	1.3
025	2.5
030	3
050	5
127	12.7
200	20
254	25.4
300	30
508	50.8
Customizable Range	

Output	
AC	AC output

Bridge Type	
D	LVDT
R	LVRT

Accessories

1.Mounting block

2.Core connecting rod (Customizable)

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