

75S1DC Series DC/DC

Linear Variable Differential Transformer

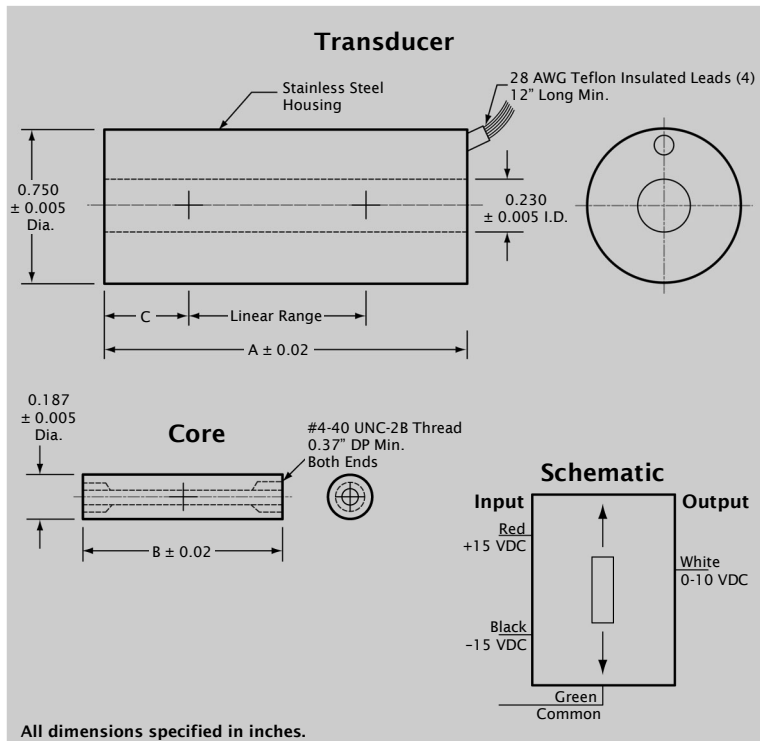


The 75S1DC Series LVDT includes integrated electronics with an AC/AC coil. It accepts ± 15 V DC input and offers 0-10 V DC single-sided output. The stable oscillator drives the primary coil and a precision demodulator and state-of-the-art filter produce smooth DC output voltage. The output, unaffected by power supply variations, can be connected directly to a meter, op amp, or data acquisition board, and therefore is very useful for feedback, monitoring, or test systems. Its rugged construction will resist the shocks and vibrations occurring in most industrial environments. Units are also magnetically shielded.

OPTIONS

- Different strokes / Shorter body length
- Metric threaded / Smaller diameter core
- Teflon Liner
- Different supply & output voltage scheme
- Higher Frequency response

DIMENSIONS AND WIRING



Technical Specifications

Models	Linear Range (inches)	Scale Factor (V/inch)	Response -3dB (Hz)	Length "A" (inches)	Core "B" (inches)	Null "C" (inches)
75S1DC-050SR	0.100	100	500	3.00	0.75	0.45
75S1DC-125SR	0.250	40	500	3.80	1.25	0.81
75S1DC-250SR	0.500	20	500	4.70	2.00	1.10
75S1DC-500SR	1.000	10	200	6.40	3.00	1.70
75S1DC-1000SR	2.000	5	200	8.75	3.80	2.19
75S1DC-2000SR	4.000	2.5	200	12.12	5.30	2.88
75S1DC-3000SR	6.000	1.65	200	17.32	6.20	4.56
75S1DC-5000SR	10.000	1.0	200	21.15	6.20	4.54
75S1DC-10KSR	20.000	0.5	200	34.00	10.00	5.88

PERFORMANCE

Non-Linearity	$\pm 0.25\%$ of Full Scale
Operating Temperature Range	32°F to 160°F (0°C to 70°C) Wider range available

ELECTRICAL

Input Voltage	± 15 V DC (Nominal), ± 20 mA
Output Voltage	0 - 10 V DC
Null Voltage	0.0 V DC
Ripple Voltage	< 25 mV RMS
Output Impedance	< 1 ohm

WARRANTY

All Sentech Inc. products are warranted against defective materials and workmanship. This warranty applies for a period of one year from the date of delivery to the original purchaser. Any product that is found within the one year period not to meet these standards will be replaced or repaired at the discretion of Sentech Inc. No other warranty is expressed or implied. Although Sentech Inc. manufactures its products to exacting specification standards, we assume no responsibility for their misuse. Sentech Inc. accepts no liability for damages, incidental or punitive, in applications using our products. *Please note:* It is solely the user's responsibility to properly install and maintain transducers. Sentech Inc. manufactures its products to meet stringent specifications and cannot assume responsibility for those consequences arising from their misuse or unauthorized modification.

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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