

75DC Series DC/DC

Linear Variable Differential Transformer

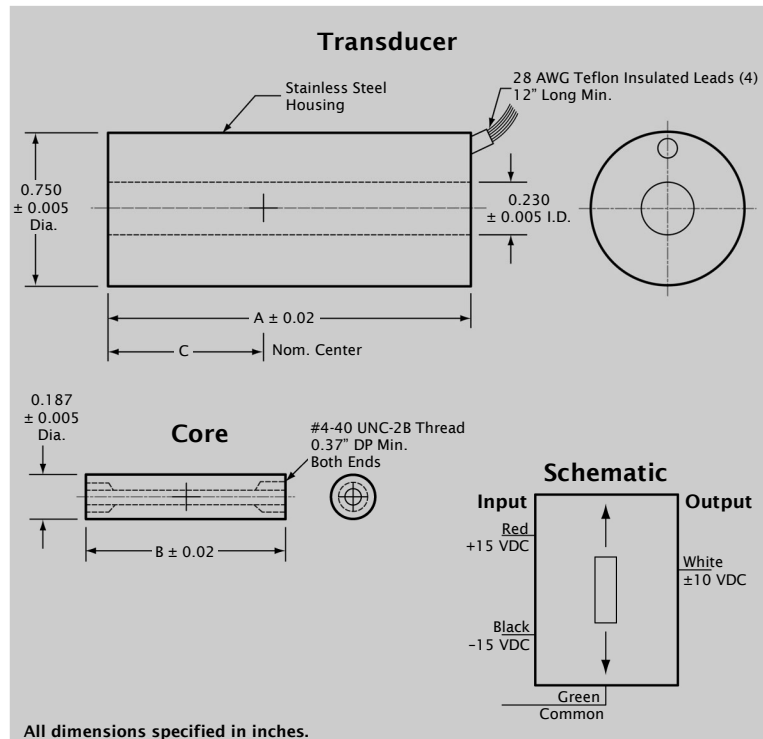


The 75DC Series LVDT is easy to use as it includes integrated electronics with an AC/AC coil. It accepts ± 15 V DC input and offers ± 10 V DC output. A stable oscillator drives the primary coil and a precision demodulator & state-of-the-art filter produce smooth DC output voltage. The output, unaffected 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) | Center "C" (inches) |
|------------|-----------------------|-----------------------|--------------------|---------------------|-------------------|---------------------|
| 75DC-050 | ± 0.050 | 200 | 500 | 2.10 | 0.75 | 0.50 |
| 75DC-125 | ± 0.125 | 80 | 500 | 2.93 | 1.25 | 0.93 |
| 75DC-250 | ± 0.250 | 40 | 500 | 3.80 | 2.00 | 1.35 |
| 75DC-500 | ± 0.500 | 20 | 200 | 5.49 | 3.00 | 2.20 |
| 75DC-1000 | ± 1.000 | 10 | 200 | 7.75 | 3.80 | 3.18 |
| 75DC-2000 | ± 2.000 | 5 | 200 | 11.12 | 5.30 | 4.88 |
| 75DC-3000 | ± 3.000 | 3.3 | 200 | 16.32 | 6.20 | 7.57 |
| 75DC-5000 | ± 5.000 | 2.0 | 200 | 20.15 | 6.20 | 9.53 |
| 75DC-10000 | ± 10.000 | 1.0 | 200 | 34.00 | 10.00 | 15.88 |

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 Volts DC (Nominal)
 ± 20 mA

Output Voltage ± 10.0 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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