

# 81STDC Series DC/DC

Linear Variable Differential Transducer

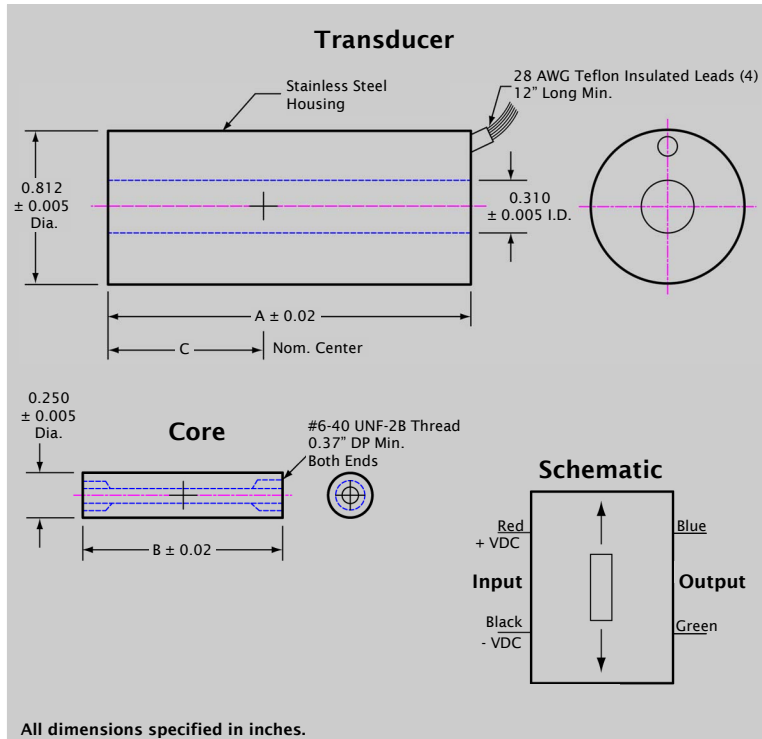


The 81STDC Series is a low cost DC/DC LVDT offering with several linear ranges. Consisting of an LVDT coil with integrated electronics, units accept single-supply DC input and offer bipolar DC voltage output with total input/output isolation. Although an amplifier is not included, the output can drive most panel meters and high impedance recording and control equipment. For other applications, a differential amplifier can be used. Output changes ratiometrically with supply voltage. The rugged construction will resist shocks and vibrations occurring in most industrial environments. Units are magnetically shielded.

## OPTIONS

- Metric threaded core
- Teflon Bore Liner
- Longer Lead Length

## 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)
81STDC-050	±0.050	64	30	2.60	0.80	0.57
81STDC-100	±0.100	54	30	3.30	1.35	0.90
81STDC-200	±0.200	15	20	4.00	1.90	1.32
81STDC-500	±0.500	9.0	20	6.75	3.15	2.73
81STDC-1000	±1.000	10	15	8.10	4.25	3.41
81STDC-2000	±2.000	3.5	10	11.50	5.30	4.99
81STDC-3000	±3.000	5.6	10	14.00	6.00	6.40
81STDC-5000	±5.000	1.4	5	19.50	6.20	8.94

## PERFORMANCE

Non-Linearity ±0.50% of Full Scale

Operating Temperature Range 0°F to 160°F (-18°C to +70°C)  
Wider range available

## ELECTRICAL

Input Voltage + 24 Volts DC (Nominal)  
35 mA

Output Voltage ± (scale factor) x (stroke)

Null Voltage 0.0 V DC

Ripple Voltage < 30 mV RMS

Output Impedance 7000 ohms

## 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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