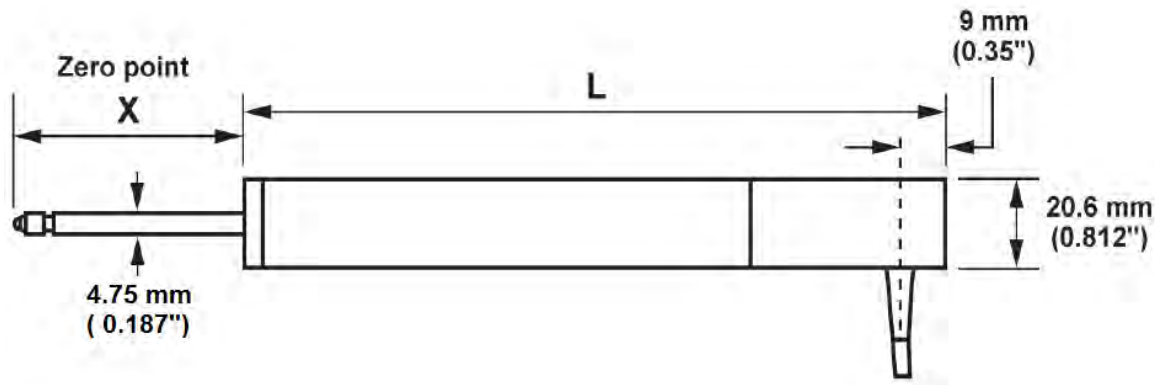




## DC "LE5" LVDT SERIES

These are the standard DC EXCITED LONG-STROKE LVDT models with SPRING-EXTENDED ARMATURE. Operating from a simple unregulated power supply of +24 to +40 V-DC (or dual  $\pm 12$  to  $\pm 20$  V-DC), each LVDT generates two standard  $\pm 5$  V-DC antiphase output signals. These two outputs can be used individually, or they can be combined to yield a high-level  $\pm 10$  V-DC "differential output signal." For low-output ( $\pm 2$  V) versions, see the DC "LE2" LVDT Series \*. Each model includes high-quality electronics for energization and signal conditioning. Encapsulated, integrated electronics are suitable for operation in harsh industrial environments. All models are fitted with 2 meters (6.6 ft.) of shielded cable.



Model	Range $\pm$	L	X (nom)	Total weight	Spring force at X	Spring rate	Inward over-travel	Outward over-travel
DSD1000LE5	12.5mm (0.5")	7.17"	1.5"	8.0oz	5oz	2oz/inch	0.04"	0.51"
DSD2000LE5	25mm (1")	8.27"	2.5"	10.0oz	7oz	3oz/inch	0.12"	0.39"
DSD4000LE5	50mm (2")	12.76"	3.0"	14.0oz	6oz	2oz/inch	0.31"	0.55"
DSD6000LE5	75mm (3")	17.17"	4.5"	1.1lb	1lbs	3oz/inch	0.59"	0.59"

# LVDT

DC, LONG-STROKE, SPRING-EXTENDED  
[LE5 SERIES]

## SPECIFICATIONS

**Excitation:** Unregulated  $\pm 12$  to  $\pm 20$  V-DC or  $+24$  to  $+40$  V-DC;  
25 mA maximum\*\*

**Armature:** Spring-extended \*\*\*

**Linearity:**  $\pm 0.5\%$  of full scale \*\*\*\*

**Outputs:**

**Output 1:** 0V to 10V (+0% - 5%)

**Output 2:**  $\pm 5$ V (+0% - 5%)

**Load (minimum):** 10k $\Omega$

**Ripple:** 30 mV peak-to-peak

**Bandwidth:** 200 Hz (flat)

**Impedance:** 2 $\Omega$

**Change in output for change in supply:** 5 mV/V

**Zero Temperature Coefficient:** 0.01% of full scale/ $^{\circ}$ C (0.005% of full scale/ $^{\circ}$ F)

**Span Temperature Coefficient:** 0.03% of full scale/ $^{\circ}$ C (0.015% of full scale/ $^{\circ}$ F)

**Operating Temperature Range:**  $-50^{\circ}$ C to  $+70^{\circ}$ C ( $-58^{\circ}$  F to  $+158^{\circ}$  F)

\* 2-wire 4-20 mA output is also available as an option.

\*\* Factory calibration is at  $\pm 15$  V-DC.

\*\*\* Other spring rates can be accommodated.

\*\*\*\*  $\pm 0.25\%$  and  $\pm 0.1\%$  linearity are available as options on some ranges (contact the factory for details).

