

E Series

The **E Series** of LVDTs is economical and satisfies numerous applications where LVDT performance and reliability are desired, but where budgets are limited. Linearity is 0.5% of full-range for all units except the E2000. The E series is particularly suitable for moderate operating temperatures. Its rugged construction will resist the shocks and vibrations encountered in most industrial applications. The E series is housed in magnetic stainless steel for protection against electromagnetic and electrostatic interference.



FEATURES

- Customary LVDT Performance at Minimal Cost
- Magnetically Shielded Case
- Compatible with all Shaevitz® Signal Conditioners

APPLICATIONS

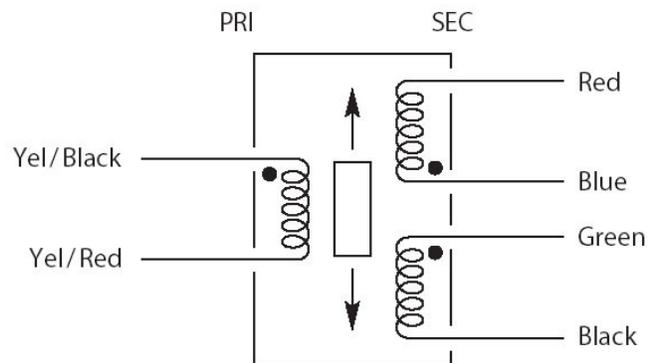
- Moderate Operating Temperatures

OPTIONS

- Metric Thread Core

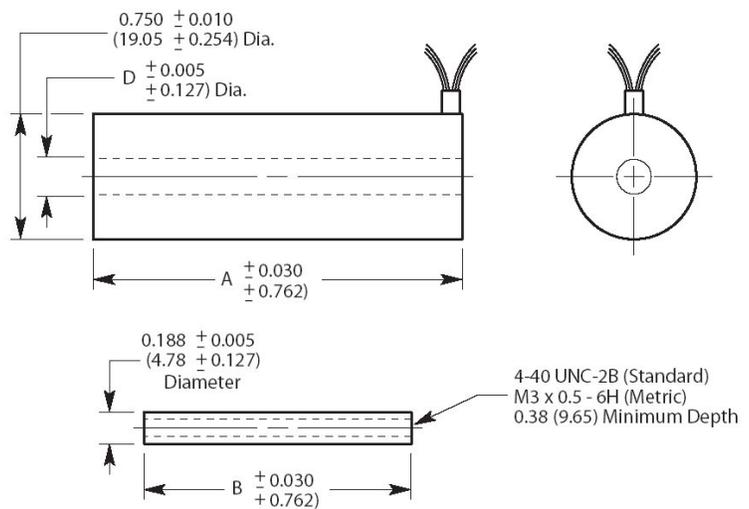
**Performance and electrical specifications for alternative frequencies will differ from the standard specifications listed below which are based on a 2.5 kHz excitation frequency. Consult factory for further information.*

wiring



Connect Green to Blue for differential output

dimensions



Specifications

Input Voltage	3 V rms (nominal)
Frequency Range	50 Hz to 10 kHz
Operating Temperature Range	-65F to 200F (-55C to 95C)
Null Voltage	<1.0% full scale output
Shock Survival	1,000 g for 11 msec
Coil Form Material	High Density, Glass-Filled Polymer
Housing Material	AISI 400 Series Stainless Steel
Lead Wires	28 AWG, stranded copper, Teflon-insulated, 12 inches (300mm) long (nominal)

Performance and electrical specifications @ 2.5 kHz¹

E-Series Model Number	Nominal Linear Range		Linearity ±% Full Range	Sensitivity		Impedance (Ohms)		Phase Shift Degrees
	Inches	mm		0.001 in	Mm	Pri	Sec	
E-100	±0.100	±2.54	0.5	2.4	96	660	960	-3
E-200	±0.125	±3.17	0.5	1.57	63	970	1010	-5
E-300	±0.250	±6.35	0.5	1.2	48	960	1005	-8.5
E-500	±0.500	±12.70	0.5	0.68	29	408	162	+6
E-1000	±1.000	±25.40	0.5	0.76	30	525	690	+3.7
E-2000	±2.000	±50.80	1.0	0.46	18	535	875	0

¹All calibration is performed at room ambient temperature.

Mechanical Specifications

HCA Series Model Number	Weight				Dimensions					
	Body		Core		A (Body)		B (Core)		D	
	Oz	Gm	Oz	Gm	In	Mm	In	Mm	In	Mm
E-100	1.09	31	0.21	3.4	1.75	44.5	1.25	31.8	0.236	6.00
E-200	1.27	36	0.13	3.8	2.25	57.2	1.48	37.6	0.236	6.00
E-300	1.59	45	0.15	4.8	2.77	70.4	1.63	41.4	0.236	6.00
E-500	1.98	56	0.30	8.4	4.56	115.8	3.00	76.2	0.210	5.33
E-1000	2.44	69	0.39	11	7.00	177.8	3.80	96.5	0.210	5.33
E-2000	4.49	127	0.60	17	10.50	266.7	6.20	157.5	0.210	5.33

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ordering information

Specify the E Model followed by the desired option number(s) ordered together.

Ordering Example:

Model Number E 100-006 is an E Series LVDT with a +/- 0.10" range and a metric thread core (006)

E model

E 100
E 200
E 300
E 400
E 500
E 1000
E 2000

options

Number	Description
006	Metric Thread Core