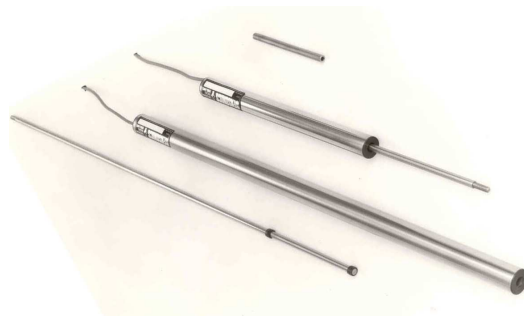


E Series AC LVDT

(Displacement Transducer)



PREDICTIVE
MAINTENANCE
SYSTEMS

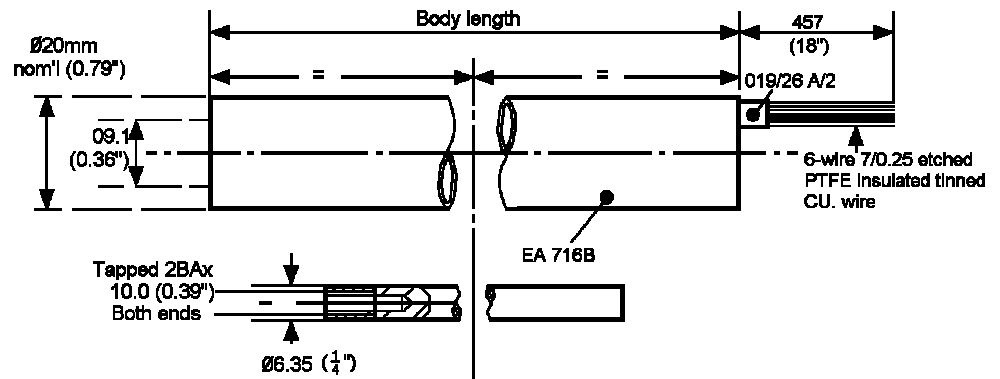


- Low Cost
- Accurate
- Ideal for OEM
- Reliable
- Large Linear ranges

The economy E Series LVDT displacement transducers are basic linear Variable Differential transformers intended for OEM applications or similar low cost requirements. The straight cylindrical body, flying lead out wires, large bore and free unguided/unrestrained core facilitate the incorporation of the device into other assemblies which may be unique to the user, eg, force or pressure transducers, mechanical, hydraulic or pneumatic actuators, tensile testers etc.

Similarly, because of these versatile characteristics, these LVDTs form the heart of many of the specialised displacement transducers in our range, the outer bodies of which may be provided with electrical connectors, mounting flanges or end fittings to suit a variety of environments and applications.

These transducers are designed for operation on low voltage AC supplies at frequencies within the range 50Hz to 5kHz. The 20mm nominal diameter body is manufactured from stainless steel. A bore tube of nominal internal diameter 9.1mm extends through the length of the cylindrical body. A free, unguided core of 6.35mm nominal diameter is internally threaded 2BA at each end for mechanical connection by the user to the source of motion. Alternatively, the LVDT may be supplied with a fitted extension rod threaded at the free end. Flying leads of 450mm length emerge through the outer edge of one body end disk. EA 716B



Specification

Input Voltage.....	From less than 1 volt to 10V RMS, 50 Hz to 5kHz
Maximum recommended input current.....	20mA
Temperature range.....	From 0° to 150°C standard
Linearity.....	± 0.5
Body diameter.....	20mm (0.79")
Mounting arrangement.....	By clamp around the body (not supplied) ±

Ordering Information/Options

Type No.s	E.01	E.02	E.05	E.075	E.1	E.2	E.3	E.4	E.5	E.6	E.8	E.10	E.12	
IS No.s	320	321	322	323	324	325	326	327	328	329	330	331	332	
Displacement ranges ±	Inches	0.1	0.2	0.5	0.75	1	2	3	4	5	6	8	10	12
	mm	2.5	5	12.5	20	25	50	75	100	125	150	200	250	300
Output at full range (mV/v@3KHz)	35	42	200	200	230	350	380	400	500	350	250	200	200	
Primary inductance (mH) approx.	80	80	70	55	70	80	100	130	140	100	285	400	400	
Primary impedance @ 3kHz (ohms)	460	700	1.3K	280	1.4K	1.5K	2K	2.4K	2.6K	2K	5.4K	7.8K	8K	
Primary Resistance (ohms)	150	200	110	100	130	190	250	330	300	180	500	600	250	
2ndary resistance (ohms) (total)	100	180	150	125	240	330	440	570	640	390	800	660	400	
Zero phase frequency	4	4		3.5							5			
Body length (inches)	1.25	1.8	3.6	4.7	6.4	9.8	12.6	14.9	17.1	20.2	24.7	29.3	33.7	
Core size 0.25" dia. X	0.6	1	1.8	2.5	3	4.5	5.6	5.6	6	6.5	7.2	7.75	9	

Options: Additional displacement ranges: including up to ± 20 inches, different lengths of integral lead out wires, fitted extension rod and core guides and ± 0.3 linearity by selection.

When ordering request unit by type No. and IS No. When requesting IS No. always put IS at the beginning

DS1183-1



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