

## ACT LVDT Displacement Transducer

- High accuracy
- High cycle life
- Infinite resolution
- Stainless steel

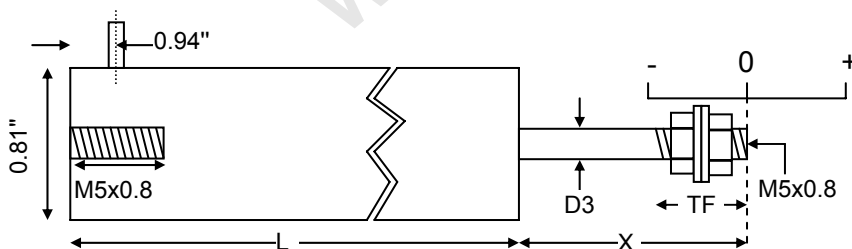


These transducers are for displacement / position measurement. They make an accurate position measurement of the movement of the armature (the sliding part) relative to the body of the displacement transducer.

This transducer uses the Linear Variable Differential Transformer (LVDT) principle which means that it is probably the most robust and reliable position sensor type available. The strength of the LVDT sensor's principle is that there is no electrical contact across the transducer position sensing element which for the user of the sensor means clean data, infinite resolution and a very long life.

This series of displacement transducer is available as either an unguided, captive or spring return version.

### Captive guided version.



Our captive guided displacement transducer has bearings to guide the armature inside the measurement sensor. Captive LVDTs are for position measurement applications where guidance may be poor and end bearings may be required.

Type	Range	Linearity error (% F.S.)	L	X	D3	Total weight	TF	Inward over-travel	Outward over-travel	Sensitivity (nom)
ACT500C	±12.5mm (±0.5")	<±0.5/±0.25/±0.1	6.0"	1.5"	0.187"	10oz	0.6"	0.4"	0.47"	0.7V/V
ACT1000C	±25mm (±1")	<±0.5/±0.25/±0.1	7.1"	2.5"	0.187"	12oz	0.6"	0.5"	0.39"	0.9V/V
ACT2000C	±50mm (±2")	<±0.5/±0.25/±0.1	11.6"	3.0"	0.187"	1.1lb	0.6"	0.4"	0.55"	1.5V/V
ACT3000C	±75mm (±3")	<±0.5/±0.25/±0.1	16.0"	4.5"	0.187"	1.4lb	0.6"	0.9"	0.59"	1.5V/V
ACT4000C	±100mm (±4")	<±0.5/±0.25/±0.1	17.8"	5.0"	0.187"	1.6lb	0.6"	0.3"	0.55"	3.2V/V
ACT6000C	±150mm (±6")	<±0.5/±0.25	25.3"	7.0"	0.187"	2.3lb	0.6"	0.5"	0.67"	2.4V/V
ACT8000C	±200mm (±8")	<±0.5/±0.25	32.8"	10.0"	0.187"	3.1lb	1.3"	0.9"	0.98"	1.5V/V
ACT10000C	±250mm (±10")	<±0.5/±0.25	40.6"	12.0"	0.187"	3.5lb	1.1"	1.3"	1.38"	2.0V/V
ACT15000C	±375mm (±15")	<±0.5	56.5"	16.0"	0.187"	4.7lb	0.8"	0.5"	0.51"	3.2V/V
ACT18500C	±470mm (±18.5")	<±0.5	67.0"	20.0"	0.236"	5.6lb	1.1"	0.2"	1.30"	3.6V/V

Type	Range	Linearity error (% F.S.)	L	X	Total weight	Armature weight	TF	Inward over-travel	Sensitivity (nom)
ACT500	±12.5mm (±0.5")	<±0.5/±0.25/±0.1	5.0"	1.7"	6oz	0.6oz	0.6"	0.6"	0.7V/V
ACT1000	±25mm (±1")	<±0.5/±0.25/±0.1	6.1"	2.7"	8oz	0.8oz	0.6"	0.9"	0.9V/V
ACT2000	±50mm (±2")	<±0.5/±0.25/±0.1	10.6"	3.2"	11oz	1.3oz	0.6"	0.6"	1.5V/V
ACT3000	±75mm (±3")	<±0.5/±0.25/±0.1	15.0"	4.7"	1.0lb	1.9oz	0.6"	1.1"	1.5V/V
ACT4000	±100mm (±4")	<±0.5/±0.25/±0.1	16.8"	5.2"	1.3lb	2.5oz	0.6"	0.6"	3.2V/V
ACT6000	±150mm (±6")	<±0.5/±0.25	24.3"	7.2"	1.8lb	3.5oz	0.6"	0.6"	2.4V/V
ACT8000	±200mm (±8")	<±0.5/±0.25	31.8"	10.2"	2.6lb	4.9oz	1.1"	1.1"	1.5V/V

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Type	Range	Linearity error (% F.S.)	L
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All dimensions and specifications are nominal.

Due to our policy of on-going development, specifications may change without notice. Any modification may affect some or all of the specifications for our equipment.

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