

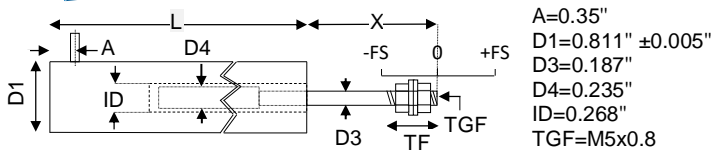
- High accuracy
- High cycle life
- Infinite resolution
- Stainless steel



The ACT series displacement transducers form part of our industrial series of LVDTs. Because they use the LVDT principle they have a very long life as there is no electrical contact across the sensing element which means clean, reliable data. The ACT transducer gives an output proportional to the position of the armature assembly with respect to the body of the transducer. ACT series transducers are available in three versions as detailed below.

RDP are the designers and manufacturers of the ACT series and so in addition to the range of standard options (higher temperature, IP rating, radiation tolerance etc) we can offer tailor made mechanical solutions to mounting and installing the transducer.

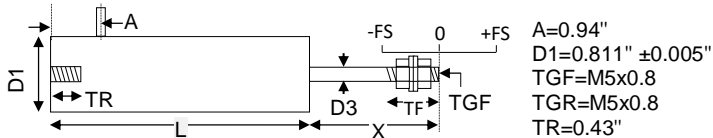
### Unguided version.



On our ACT unguided LVDTs the armature assembly is a separate component, to make a measurement the user must guide the armature inside the body without touching the sides. Our ACT unguided position measurement transducers are appropriate where external guidance is available and give truly non-contact operation

Type	Range	Linearity error (% F.S.)	L	X (nom)	Total weight	Armature weight	TF	Inward over-travel	Sensitivity (nom)
ACT500	$\pm 12.5\text{mm} (\pm 0.5")$	$\pm 0.5/\pm 0.25/\pm 0.1$	5.00"	1.7"	6.0oz	0.60oz	0.59"	0.6"	0.7V/V
ACT1000	$\pm 25\text{mm} (\pm 1")$	$\pm 0.5/\pm 0.25/\pm 0.1$	6.10"	2.7"	8.0oz	0.81oz	0.59"	0.9"	0.9V/V
ACT2000	$\pm 50\text{mm} (\pm 2")$	$\pm 0.5/\pm 0.25/\pm 0.1$	10.63"	3.2"	11.3oz	1.31oz	0.59"	0.6"	1.5V/V
ACT3000	$\pm 75\text{mm} (\pm 3")$	$\pm 0.5/\pm 0.25/\pm 0.1$	14.96"	4.7"	1.0lb	1.94oz	0.59"	1.1"	1.5V/V
ACT4000	$\pm 100\text{mm} (\pm 4")$	$\pm 0.5/\pm 0.25/\pm 0.1$	16.81"	5.2"	1.3lb	2.50oz	0.59"	0.6"	3.2V/V
ACT6000	$\pm 150\text{mm} (\pm 6")$	$\pm 0.5/\pm 0.25$	24.29"	7.2"	1.8lb	3.53oz	0.59"	0.6"	2.4V/V
ACT8000	$\pm 200\text{mm} (\pm 8")$	$\pm 0.5/\pm 0.25$	31.81"	10.2"	2.6lb	4.94oz	1.15"	1.1"	1.5V/V

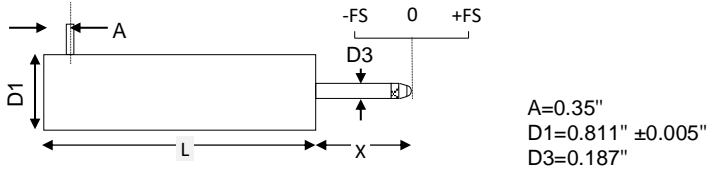
### Captive guided version.



Our ACT captive guided displacement transducer has bearings to guide the armature inside the measurement sensor. Our ACT 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 (nom)	D3	Total weight	TF	Inward over-travel	Outward over-travel	Sensitivity (nom)
ACT500C	$\pm 12.5\text{mm} (\pm 0.5")$	$\pm 0.5/\pm 0.25/\pm 0.1$	5.98"	1.5"	0.187"	10.0oz	0.59"	0.4"	0.47"	0.7V/V
ACT1000C	$\pm 25\text{mm} (\pm 1")$	$\pm 0.5/\pm 0.25/\pm 0.1$	7.09"	2.5"	0.187"	12.0oz	0.59"	0.5"	0.39"	0.9V/V
ACT2000C	$\pm 50\text{mm} (\pm 2")$	$\pm 0.5/\pm 0.25/\pm 0.1$	11.61"	3.0"	0.187"	1.1lb	0.59"	0.4"	0.55"	1.5V/V
ACT3000C	$\pm 75\text{mm} (\pm 3")$	$\pm 0.5/\pm 0.25/\pm 0.1$	15.98"	4.5"	0.187"	1.4lb	0.59"	0.9"	0.59"	1.5V/V
ACT4000C	$\pm 100\text{mm} (\pm 4")$	$\pm 0.5/\pm 0.25/\pm 0.1$	17.80"	5.0"	0.187"	1.6lb	0.59"	0.3"	0.55"	3.2V/V
ACT6000C	$\pm 150\text{mm} (\pm 6")$	$\pm 0.5/\pm 0.25$	25.31"	7.0"	0.187"	2.3lb	0.59"	0.5"	0.67"	2.4V/V
ACT8000C	$\pm 200\text{mm} (\pm 8")$	$\pm 0.5/\pm 0.25$	32.80"	10.0"	0.187"	3.1lb	1.25"	0.9"	0.98"	1.5V/V
ACT10000C	$\pm 250\text{mm} (\pm 10")$	$\pm 0.5/\pm 0.25$	40.55"	12.0"	0.187"	3.5lb	1.05"	1.3"	1.38"	2.0V/V
ACT15000C	$\pm 380\text{mm} (\pm 15")$	$\pm 0.5$	56.50"	16.0"	0.187"	4.7lb	0.75"	0.5"	0.51"	3.2V/V
ACT18500C	$\pm 470\text{mm} (\pm 18.5")$	$\pm 0.5$	67.01"	20.0"	0.236"	5.6lb	1.05"	0.2"	1.30"	3.6V/V

## Spring return version.



Our ACT spring displacement transducer has bearings to guide the armature inside the measurement sensor and a spring which pushes the armature to the fully out position. Our ACT spring return LVDTs are appropriate where it is not possible to connect the transducer armature to the moving component being measured.

Type	Range	Linearity error (% F.S.)	L	X (nom)	Total weight	Spring force at X	Spring rate	Inward over-travel	Outward over-travel	Sensitivity (nom)
ACT500A	$\pm 12.5\text{mm}$ ( $\pm 0.5''$ )	$\pm 0.5/\pm 0.25/\pm 0.1$	5.25"	1.5"	6.5oz	5oz	2oz/inch	0.04"	0.51"	0.7V/V
ACT1000A	$\pm 25\text{mm}$ ( $\pm 1''$ )	$\pm 0.5/\pm 0.25/\pm 0.1$	6.35"	2.5"	8.0oz	7oz	3oz/inch	0.1"	0.39"	0.9V/V
ACT2000A	$\pm 50\text{mm}$ ( $\pm 2''$ )	$\pm 0.5/\pm 0.25/\pm 0.1$	10.85"	3.0"	14.0oz	6oz	2oz/inch	0.3"	0.55"	1.5V/V
ACT3000A	$\pm 75\text{mm}$ ( $\pm 3''$ )	$\pm 0.5/\pm 0.25/\pm 0.1$	15.25"	4.5"	1.1lb	1lbs	3oz/inch	0.6"	0.59"	1.5V/V

Specification	
Excitation/supply (acceptable)	0.5V to 7V rms, 2kHz to 10kHz (sinusoidal)
Excitation/supply (calibrated)	5V rms, 5kHz (sinusoidal)
Linearity error (Standard)	$\pm 0.5\%$ F.S.
Linearity error (Optional on some models)	$\pm 0.25\%$ F.S.
Linearity error (Optional on some models)	$\pm 0.1\%$ F.S.
Temperature coefficient (span)	$\pm 0.006\%$ F.S./°F (typical)
Operating temperature range	-58°F to 257°F
Electrical termination	6.6ft (integral cable) Longer available to order.



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

### ACT - WARNING - PERSONAL INJURY

Do not use our ACT as safety, emergency stop or feedback devices in any application where the failure of this product could result in damage to equipment, personal injury or death.

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## Distribuidor

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