

Trasduttore di Spostamento – Serie LVDT D5 & D6



- Risoluzione infinita
- Dimensioni ridotte
- Alto numero di cicli
- Acciaio inossidabile
- Accuratezza (best) 0.1% F.S.
- Range minim $\pm 0.25\text{mm}$
- Range massimo $\pm 12.5\text{mm}$
- Lunghezza 49mm
- Diametro 9.5mm

Sono trasduttori per la misura dello spostamento / posizione.

Questo trasduttore utilizza il Variable Differential Transformer (LVDT).

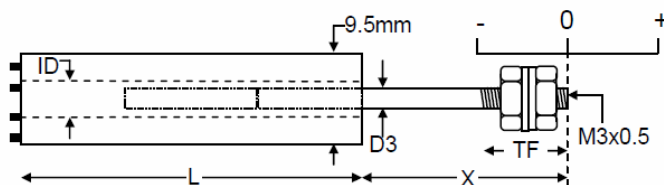
La resistenza del sensore LVDT è che non vi è alcun contatto elettrico attraverso l'elemento sensibile che per l'utente significa dati puliti, risoluzione infinita e una vita molto lunga.

I LVDT sono disponibili sia in versioni di ritorno non guidate o a molla.

Specification	
Excitation/supply (acceptable)	0.5V to 7V rms, 2kHz to 10kHz (sinusoidal)
Excitation/supply (calibrated)	5V rms, 5kHz (sinusoidal)
Output load	100k Ohms
Temperature coefficient (zero)	$\pm 0.01\%$ F.S. /°C (typical)
Temperature coefficient (span)	$\pm 0.01\%$ F.S. /°C (typical)
Operating temperature range	-20°C to 125°C
Electrical termination	2m (integral cable) Longer available to order.

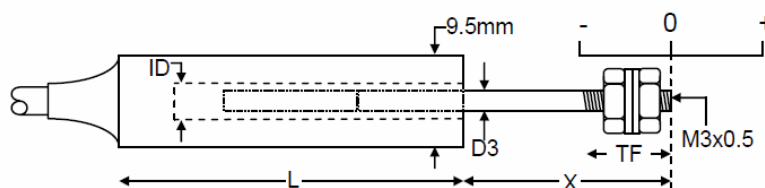
Versione non guidata.

Nessun cavo (cavo dotato dall'utente).



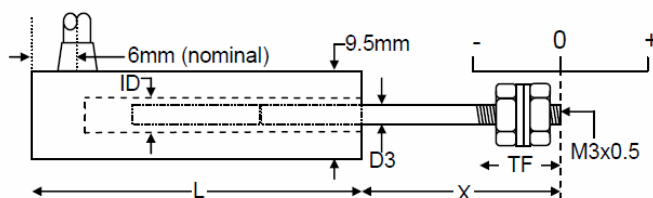
Type	Range	Linearity error (% F.S.)	L	X	D3	ID	Total weight	Armature weight	TF	Inward over-travel	Sensitivity (nom)
D5/25K	±0.65mm	<±0.5/±0.25	19mm	28mm	2.00mm	3.17mm	14g	1.3g	19mm	7.9mm	43mV/V
D5/100K	±2.5mm	<±0.5/±0.25/±0.1	32mm	19mm	2.36mm	2.59mm	16g	1.4g	15mm	1.3mm	193mV/V
D5/200K	±5mm	<±0.5/±0.25/±0.1	34mm	25mm	2.36mm	2.59mm	18g	1.8g	18mm	1.5mm	365mV/V
D5/300K	±7.5mm	<±0.5/±0.25/±0.1	47mm	30mm	2.00mm	2.54mm	20g	1.8g	18mm	3.9mm	502mV/V
D5/400K	±10mm	<±0.5/±0.25	52mm	33mm	2.00mm	2.54mm	26g	1.9g	18mm	4.4mm	576mV/V
MD5/500K	±12.5mm	<±0.5/±0.25	68mm	35mm	2.00mm	2.54mm	34g	2.3g	18mm	4.3mm	775mV/V

Cavo uscita (assiale)



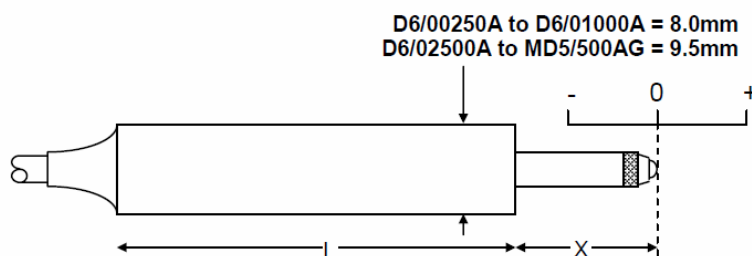
Type	Range	Linearity error (% F.S.)	L	X	D3	ID	Total weight	Armature weight	TF	Inward over-travel	Sensitivity (nom)
D5/25HK	±0.65mm	<±0.5/±0.25	35mm	28mm	2.00mm	3.17mm	14g	1.3g	19mm	7.9mm	43mV/V
D6/02500U	±2.5mm	<±0.5/±0.25/±0.1	43mm	19mm	2.00mm	2.90mm	17g	1.8g	15mm	1.5mm	375mV/V
D6/05000U	±5mm	<±0.5/±0.25/±0.1	56mm	25mm	2.00mm	2.90mm	21g	1.8g	18mm	2.0mm	700mV/V
D5/300HK	±7.5mm	<±0.5/±0.25/±0.1	58mm	30mm	2.00mm	2.54mm	20g	1.8g	18mm	3.9mm	502mV/V
D5/400HK	±10mm	<±0.5/±0.25	63mm	33mm	2.00mm	2.54mm	26g	1.9g	18mm	4.4mm	576mV/V
MD5/500HK	±12.5mm	<±0.5/±0.25	79mm	35mm	2.00mm	2.54mm	34g	2.3g	18mm	4.3mm	775mV/V

Cavo uscita (radiale)

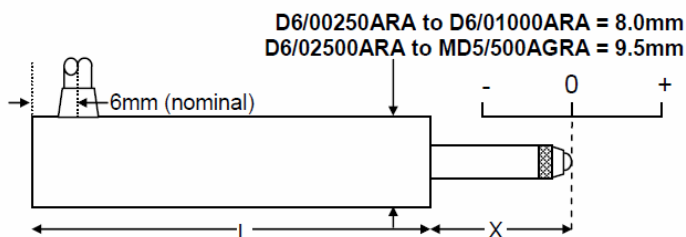


Type	Range	Linearity error (% F.S.)	L	X	D3	ID	Total weight	Armature weight	TF	Inward over-travel	Sensitivity (nom)
D6/02500URA	±2.5mm	<±0.5/±0.25/±0.1	45mm	19.3mm	2.00mm	2.92mm	17g	1.8g	15mm	1.5mm	375mV/V
D6/05000URA	±5mm	<±0.5/±0.25/±0.1	60mm	25.4mm	2.00mm	2.92mm	21g	1.8g	18mm	2.0mm	700mV/V
D5/300HKRA	±7.5mm	<±0.5/±0.25/±0.1	60mm	30.0mm	2.00mm	2.54mm	20g	1.8g	18mm	3.9mm	502mV/V
D5/400HKRA	±10mm	<±0.5/±0.25	65mm	32.5mm	2.00mm	2.54mm	26g	1.9g	18mm	4.4mm	576mV/V
MD5/500HKRA	±12.5mm	<±0.5/±0.25	81mm	34.9mm	2.00mm	2.54mm	34g	2.3g	18mm	4.3mm	775mV/V

Versione ritorno a molla



Type	Range	Linearity error (% F.S.)	L	X	Total weight	Spring force at X	Spring rate	Inward over-travel	Outward over-travel	Sensitivity (nom)
D6/00250A	±0.25mm	<±0.5/±0.25	49mm	12.2mm	11g	0.6N	1.2N/cm	0.6mm	0.6mm	38mV/V
D6/00500A	±0.5mm	<±0.5/±0.25	49mm	12.2mm	11g	0.6N	1.2N/cm	0.3mm	0.3mm	75mV/V
D6/01000A	±1mm	<±0.5/±0.25/±0.1	52mm	13.1mm	12g	0.4N	1.2N/cm	2.5mm	0.2mm	150mV/V
D6/02500A	±2.5mm	<±0.5/±0.25/±0.1	61mm	11.5mm	25g	0.9N	0.9N/cm	1.3mm	1.3mm	375mV/V
D6/05000A	±5mm	<±0.5/±0.25/±0.1	78mm	12.3mm	30g	0.9N	0.8N/cm	1.1mm	1.4mm	700mV/V
D5/300AG	±7.5mm	<±0.5/±0.25/±0.1	88mm	15.3mm	34g	1.1N	0.6N/cm	1.1mm	1.6mm	502mV/V
D5/400AG	±10mm	<±0.5/±0.25	99mm	19.0mm	40g	1.4N	0.4N/cm	2.5mm	1.3mm	576mV/V
MD5/500AG	±12.5mm	<±0.5/±0.25	121mm	21.6mm	48g	1.4N	0.4N/cm	2.5mm	1.3mm	775mV/V



Type	Range	Linearity error (% F.S.)	L	X	Total weight	Spring force at X	Spring rate	Inward over-travel	Outward over-travel	Sensitivity (nom)
D6/00250ARA	±0.25mm	<±0.5/±0.25	50mm	12.2mm	11g	0.6N	1.2N/cm	0.6mm	0.6mm	38mV/V
D6/00500ARA	±0.5mm	<±0.5/±0.25	50mm	12.2mm	11g	0.6N	1.2N/cm	0.3mm	0.3mm	75mV/V
D6/01000ARA	±1mm	<±0.5/±0.25/±0.1	53mm	13.1mm	12g	0.4N	1.2N/cm	2.5mm	0.2mm	150mV/V
D6/02500ARA	±2.5mm	<±0.5/±0.25/±0.1	64mm	11.5mm	25g	0.9N	0.9N/cm	1.3mm	1.3mm	375mV/V
D6/05000ARA	±5mm	<±0.5/±0.25/±0.1	83mm	12.3mm	30g	0.9N	0.8N/cm	1.1mm	1.4mm	700mV/V
D5/300AGRA	±7.5mm	<±0.5/±0.25/±0.1	90mm	15.3mm	34g	1.1N	0.6N/cm	1.1mm	1.6mm	502mV/V
D5/400AGRA	±10mm	<±0.5/±0.25	102mm	19.0mm	40g	1.4N	0.4N/cm	2.5mm	1.3mm	576mV/V
MD5/500AGRA	±12.5mm	<±0.5/±0.25	124mm	21.6mm	48g	1.4N	0.4N/cm	2.5mm	1.3mm	775mV/V