

KEY FEATURES

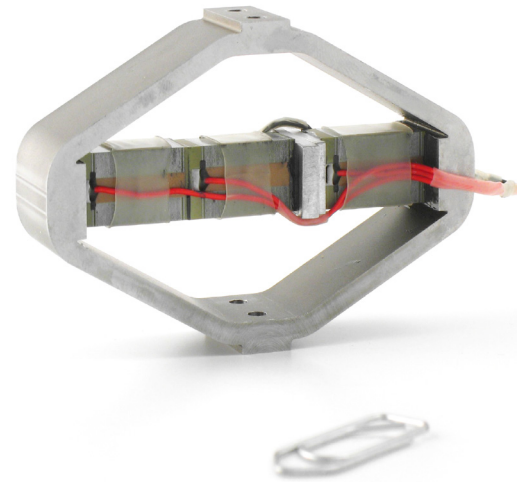
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > Mechanical Amplification
- > Compact Size
- > High Resolution

RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers

AVAILABLE OPTIONS

- > SG sensor
- > Vacuum compatibility
- > Ultra High Vacuum



PARAMETER	VALUE	UNIT
> Quasistatic performances		
Nominal Stroke	99	µm
Min stroke	89	µm
Resolution ⁽¹⁾	5.6	nm
Blocked force	2 100	N
Stiffness	21	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	6 500	Hz
Resonance frequency (blocked-free) ⁽³⁾	2 100	Hz
Force limit ⁽⁴⁾	1 100	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	13	µF
> Dimensions & interfaces		
Height	60	mm
Length	80	mm
Width incl wires	23	mm
Mass	160	g
> Standard mechanical interfaces	See ICD	
> Electrical interface	See ICD	

ANNOTATIONS

(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85 dB computed as RMS output signal / RMS output Noise floor at [0;200 Hz]

(2) Free-free: The actuator mounts are free

(3) Blocked-free: The actuator is fixed to a mechanical support assumed infinitely stiff

(4) Maximum pulling or pushing external force, valid up to 90% of the blocked-free resonance frequency of the actuator

(5) Capacitance +/- 20%, at 1 V RMS, low frequency, without load

