

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
- > Non magnetic shell



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
> Quasistatic performances		
Nominal Stroke	52	µm
Min stroke	47	µm
Resolution ⁽¹⁾	2.9	nm
Blocked force	27	N
Stiffness	0.52	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	18000	Hz
Resonance frequency (blocked-free) ⁽³⁾	3 900	Hz
Force limit ⁽⁴⁾	37	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	0.30	µF
> Dimensions & interfaces		
Height	6	mm
Length	13	mm
Width incl wires	9	mm
Mass	2.0	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

