

APPLICATIONS

- > Fast and precise positioning
- > Dynamic applications

KEY FEATURES

- > Parallel Pre-stressed Actuator
- > Low voltage piezo ceramic
- > Compact size
- > Non magnetic option available

RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers

AVAILABLE OPTIONS

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

AVAILABLE VARIANTS

- > Non magnetic shell

AVAILABLE INTERFACES

- > Threaded hole

ANNOTATIONS

(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;2Hz]

(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



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
> Quasistatic performances		
Nominal Stroke	85	µm
Min stroke	77	µm
Resolution ⁽¹⁾	4.8	nm
Blocked force	4 600	N
Stiffness	54	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	8 700	Hz
Resonance frequency (blocked-free) ⁽³⁾	4 700	Hz
Force limit ⁽⁴⁾	1 500	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	18	µF
> Dimensions & interfaces		
Height	97	mm
Length	24	mm
Width incl wires	18	mm
Mass	140	g
Standard mechanical interfaces	2 flat surfaces with 1 centered M3 threaded hole 5mm deep & 4 M2.5 threaded holes on Ø15mm 4mm deep	
Electrical interface	2 PTFE insulated AWG26 wires 100mm long with Ø1 banana plug	

