

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

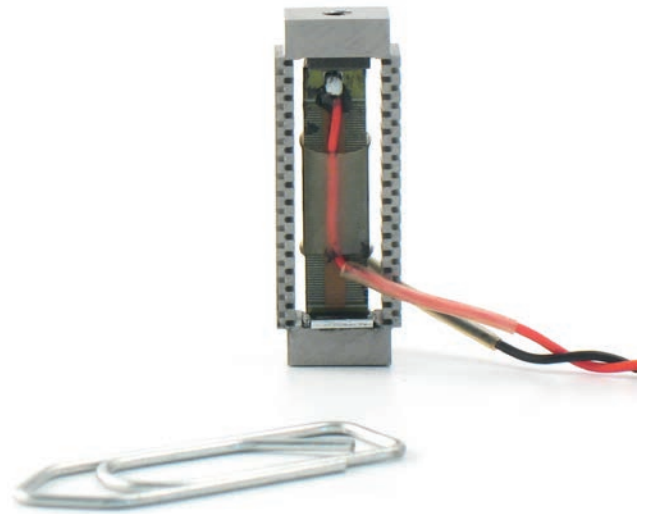
- > SG sensor
- > Vacuum compatibility
- > Ultra High Vacuum
- > Thermocouple sensor

AVAILABLE VARIANTS

- > Non magnetic shell

AVAILABLE INTERFACES

- > Threaded hole



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
> Quasistatic performances		
Nominal Stroke	20	µm
Min stroke	18	µm
Resolution ⁽⁴⁾	1.1	nm
Blocked force	1 100	N
Stiffness	58	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	39 000	Hz
Resonance frequency (blocked-free) ⁽³⁾	20 000	Hz
Force limit ⁽⁴⁾	500	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	1.1	µF
> Dimensions & interfaces		
Height	28	mm
Length	10	mm
Width incl wires	9	mm
Mass	12	g
Standard mechanical interfaces	2 flat surfaces 8.3*6.5 mm ² with 1 centered M2.5 threaded hole 2.5mm deep	
Electrical interface	2 PTFE insulated AWG30 wires 100mm long with Ø1 banana plug	

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

