

## KEY FEATURES

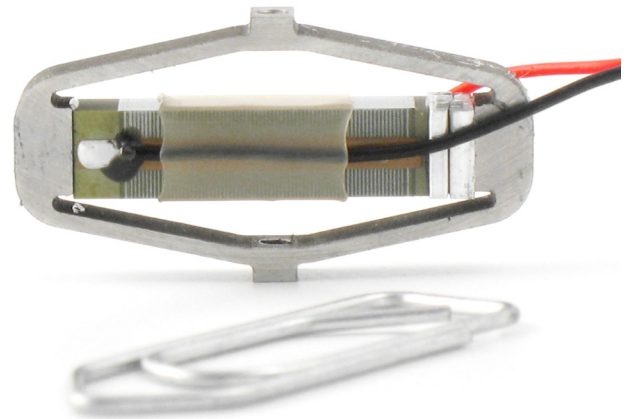
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > Mechanical Amplification
- > Compact Size
- > High Resolution

## 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 |
|---|-------------|------|
| <b>&gt; Quasistatic performances</b>              |             |      |
| Nominal Stroke                                    | 75          | µm   |
| Min stroke  | 68          | µm   |
| Resolution <sup>(1)</sup>                         | 4.2         | nm   |
| Blocked force                                     | 130         | N    |
| Stiffness   | 1.7         | N/µm |
| <b>&gt; Dynamic performances</b>                  |             |      |
| Resonance frequency (free-free) <sup>(2)</sup>    | 13000       | Hz   |
| Resonance frequency (blocked-free) <sup>(3)</sup> | 2 900       | Hz   |
| Force limit <sup>(4)</sup>                        | 120         | N    |
| <b>&gt; Control &amp; driving</b>                 |             |      |
| Voltage range                                     | -20 ... 150 | V    |
| Capacitance <sup>(5)</sup>                        | 1.1         | µF   |
| <b>&gt; Dimensions &amp; interfaces</b>           |             |      |
| Height  | 15          | mm   |
| Length  | 29          | mm   |
| Width incl wires                                  | 9           | mm   |
| Mass  | 8.5         | g    |
| <b>&gt; Standard mechanical interfaces</b>        | See ICD     |      |
| <b>&gt; Electrical interface</b>                  | See ICD     |      |

## ANNOTATIONS

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

(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

