

KEY FEATURES

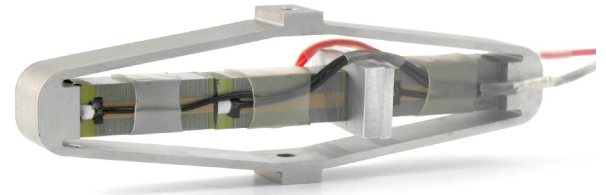
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > Mechanical Amplification
- > Compact Size
- > High Resolution

RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers

AVAILABLE OPTIONS

- > SG sensor
- > Vacuum compatibility
- > Non magnetic shell



NON CONTRACTUAL PICTURE

| PARAMETER | VALUE | UNIT |
|---|-------------|------|
| > Quasistatic performances | | |
| Nominal Stroke | 360 | µm |
| Min stroke | 320 | µm |
| Resolution ⁽¹⁾ | 20 | nm |
| Blocked force | 180 | N |
| Stiffness | 0.52 | N/µm |
| > Dynamic performances | | |
| Resonance frequency (free-free) ⁽²⁾ | 2 800 | Hz |
| Resonance frequency (blocked-free) ⁽³⁾ | 630 | Hz |
| Force limit ⁽⁴⁾ | 150 | N |
| > Control & driving | | |
| Voltage range | -20 ... 150 | V |
| Capacitance ⁽⁵⁾ | 6.3 | µF |
| > Dimensions & interfaces | | |
| Height | 24 | mm |
| Length | 78 | mm |
| Width incl wires | 12 | mm |
| Mass | 48 | g |
| > Standard mechanical interfaces | See ICD | |
| > Electrical interface | 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

