

### KEY FEATURES

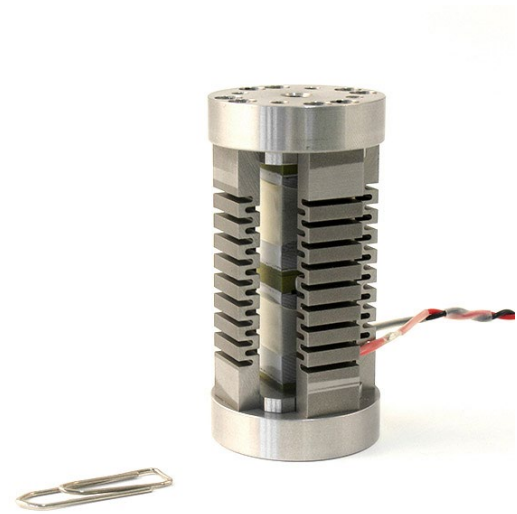
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > High Efficiency
- > Compact Size
- > High Resolution

### 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                                    | 43          | µm   |
| Min stroke  | 39          | µm   |
| Resolution <sup>(1)</sup>                         | 2.4         | nm   |
| Blocked force                                     | 7 000       | N    |
| Stiffness   | 210         | N/µm |
| <b>&gt; Dynamic performances</b>                  |             |      |
| Resonance frequency (free-free) <sup>(2)</sup>    | 14000       | Hz   |
| Resonance frequency (blocked-free) <sup>(3)</sup> | 8 000       | Hz   |
| Force limit <sup>(4)</sup>                        | 3 300       | N    |
| <b>&gt; Control &amp; driving</b>                 |             |      |
| Voltage range                                     | -20 ... 150 | V    |
| Capacitance <sup>(5)</sup>                        | 17          | µF   |
| <b>&gt; Dimensions &amp; interfaces</b>           |             |      |
| Height  | 60          | mm   |
| Length  | 30          | mm   |
| Width incl wires                                  | 30          | mm   |
| Mass  | 250         | g    |
| <b>&gt; Standard mechanical interfaces</b>        | See ICD     |      |
| <b>&gt; Electrical interface</b>                  | See ICD     |      |

### ANNOTATIONS

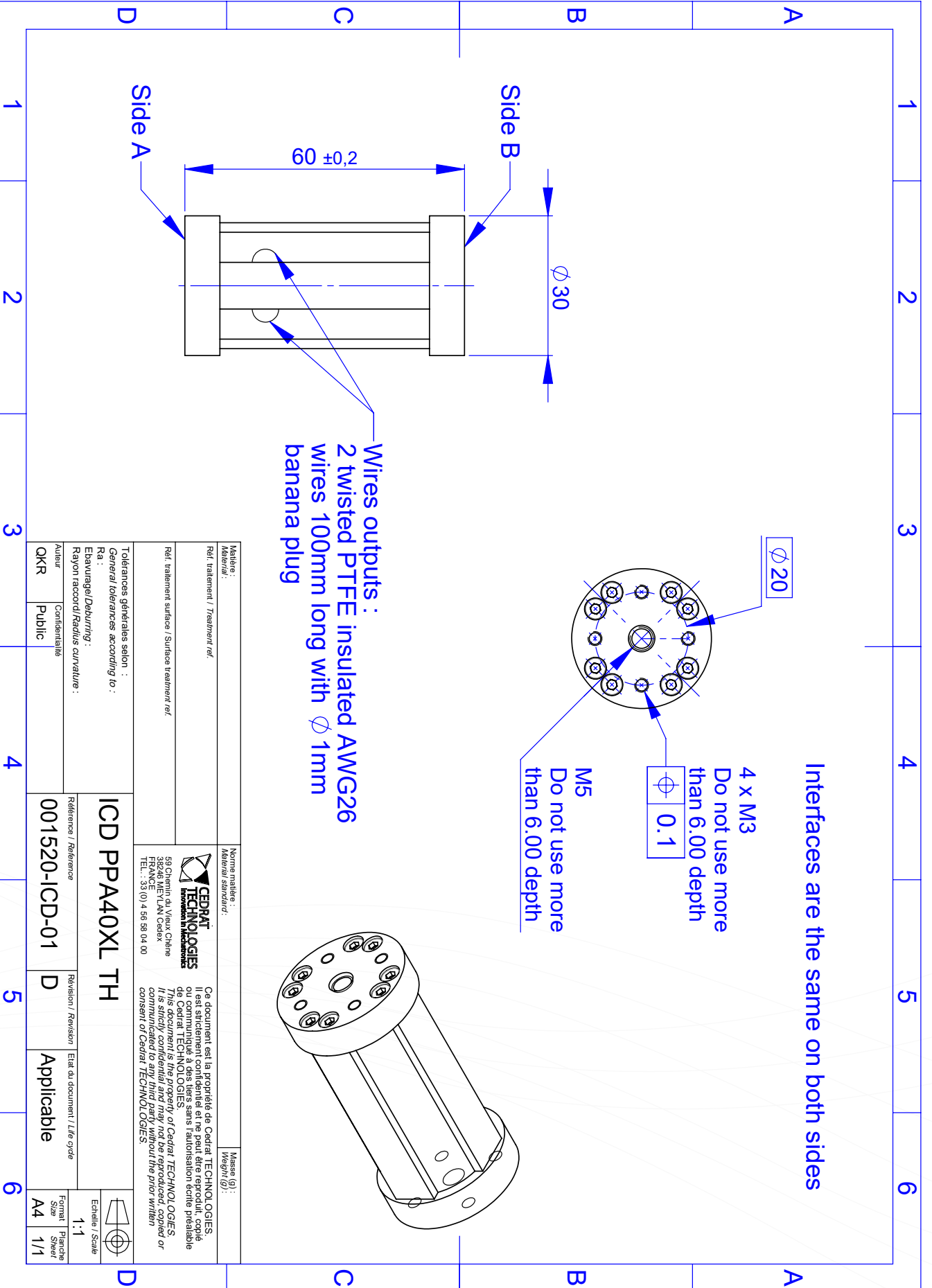
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;200Hz]

(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



|  |  |   |  |  |  |
|--|--|---|--|--|--|
| Matière :<br>Matériau :  |  | Norme matière :<br>Matériau standard :  |  | Masse (g) :<br>Weight (g) :  |  |
| Réf. traitement / Treatment ref.                                 |  | CEDRAT TECHNOLOGIES<br>Innovation in Mechatronics<br>59 Chemin du Vieux Chêne<br>38246 MEYLAN Cedex<br>TEL. : +33 (0) 4 56 58 04 00 |  | Ce document est la propriété de Cedrat TECHNOLOGIES.<br>Il est strictement confidentiel et ne peut être reproduit, copié ou communiqué à des tiers sans l'autorisation écrite préalable de Cedrat TECHNOLOGIES.<br>This document is the property of Cedrat TECHNOLOGIES.<br>It is strictly confidential and may not be reproduced or communicated to any third party without the prior written consent of Cedrat TECHNOLOGIES. |  |
| Réf. traitement surface / Surface treatment ref.                 |  | ICD PPA40XL TH  |  | Etat du document / Life cycle  |  |
| Tolérances générées selon :<br>General tolerances according to : |  | Révision / Revision   |  | Applicable   |  |
| Ra :   |  | 001520-ICD-01   |  | A4   |  |
| Ebauvage/Deburring :   |  | D   |  | 1/1  |  |
| Rayon raccordi/Radius curvature :                                |  | D   |  | 1/1  |  |
| Auteur   |  | Confidentialité   |  | Echelle / Scale  |  |
| QKR  |  | Public  |  | 1 : 1  |  |
| 001520-ICD-01  |  | D   |  | Format / Paper Size  |  |
| 001520-ICD-01  |  | D   |  | A4   |  |