

### 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	85	µm
Min stroke	77	µm
Resolution <sup>(1)</sup>	4.8	nm
Blocked force	3 500	N
Stiffness	54	N/µm
<b>&gt; Dynamic performances</b>		
Resonance frequency (free-free) <sup>(2)</sup>	8 700	Hz
Resonance frequency (blocked-free) <sup>(3)</sup>	4 700	Hz
Force limit <sup>(4)</sup>	1 500	N
<b>&gt; Control &amp; driving</b>		
Voltage range	-20 ... 150	V
Capacitance <sup>(5)</sup>	18	µF
<b>&gt; Dimensions &amp; interfaces</b>		
Height	97	mm
Length	24	mm
Width incl wires	18	mm
Mass	140	g
<b>&gt; Standard mechanical interfaces</b>	See ICD	
<b>&gt; Electrical interface</b>	See ICD	

### ANNOTATIONS

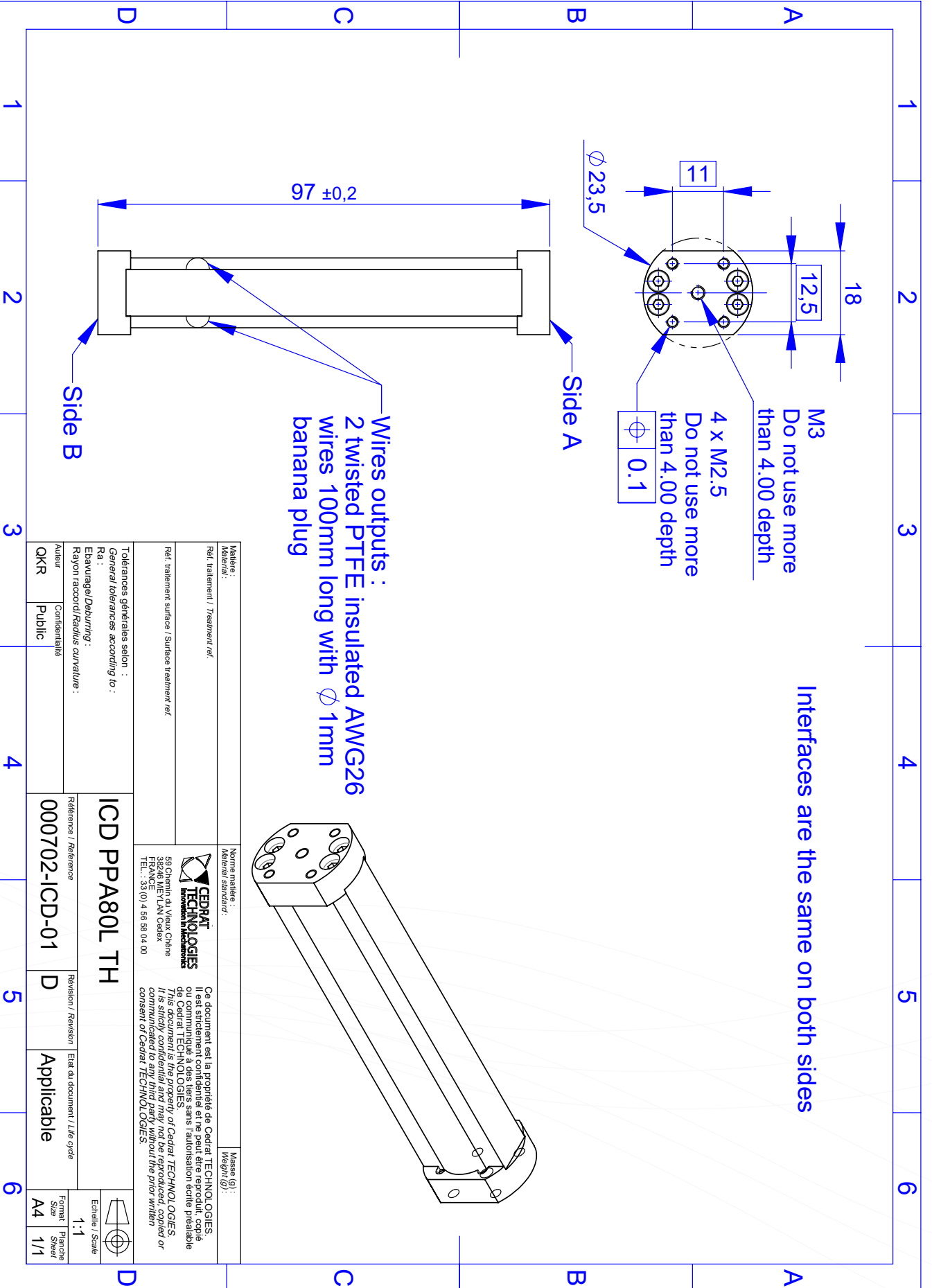
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;200Hz]

(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 : Material :		Norme matière : Material standard :		Masse (g) : Weight (g) :	
Réf. traitement / Treatment ref.		CEDRAT TECHNOLOGIES Innovation in Mechatronics 59 Chemin du Vieux Chêne 38246 MEYLAN Cedex TEL. : 33 (0) 4 56 58 04 00		Ce document est la propriété de Cedrat TECHNOLOGIES. Il est strictement confidentiel et ne peut être reproduit, copié ou communiqué à des tiers sans l'autorisation écrite préalable de Cedrat TECHNOLOGIES. This document is the property of Cedrat TECHNOLOGIES. It is confidential to our client and may not be copied or communicated to any third party without the prior written consent of Cedrat TECHNOLOGIES.	
Réf. traitement surface / Surface treatment ref.		ICD PPA80L TH		Etat du document / Life cycle	
Tolérances générées selon : General tolerances according to :		Révision / Revision		Applicable	
Ra :		000702-ICD-01		D	
Ebauvage/Deburring :		Reference / Reference		1 : 1	
Rayon raccordi/Radius curvature :		000702-ICD-01		A4	
Auteur		Confidentialité		1/1	
QKR		Public			