

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
> Quasistatic performances		
Nominal Stroke	90	µm
Min stroke	81	µm
Resolution ⁽¹⁾	5.1	nm
Blocked force	7 000	N
Stiffness	110	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	8 700	Hz
Resonance frequency (blocked-free) ⁽³⁾	4 600	Hz
Force limit ⁽⁴⁾	2 900	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	34	µF
> Dimensions & interfaces		
Height	100	mm
Length	30	mm
Width incl wires	30	mm
Mass	320	g
> Standard mechanical interfaces	See ICD	
> Electrical interface	See ICD	

ANNOTATIONS

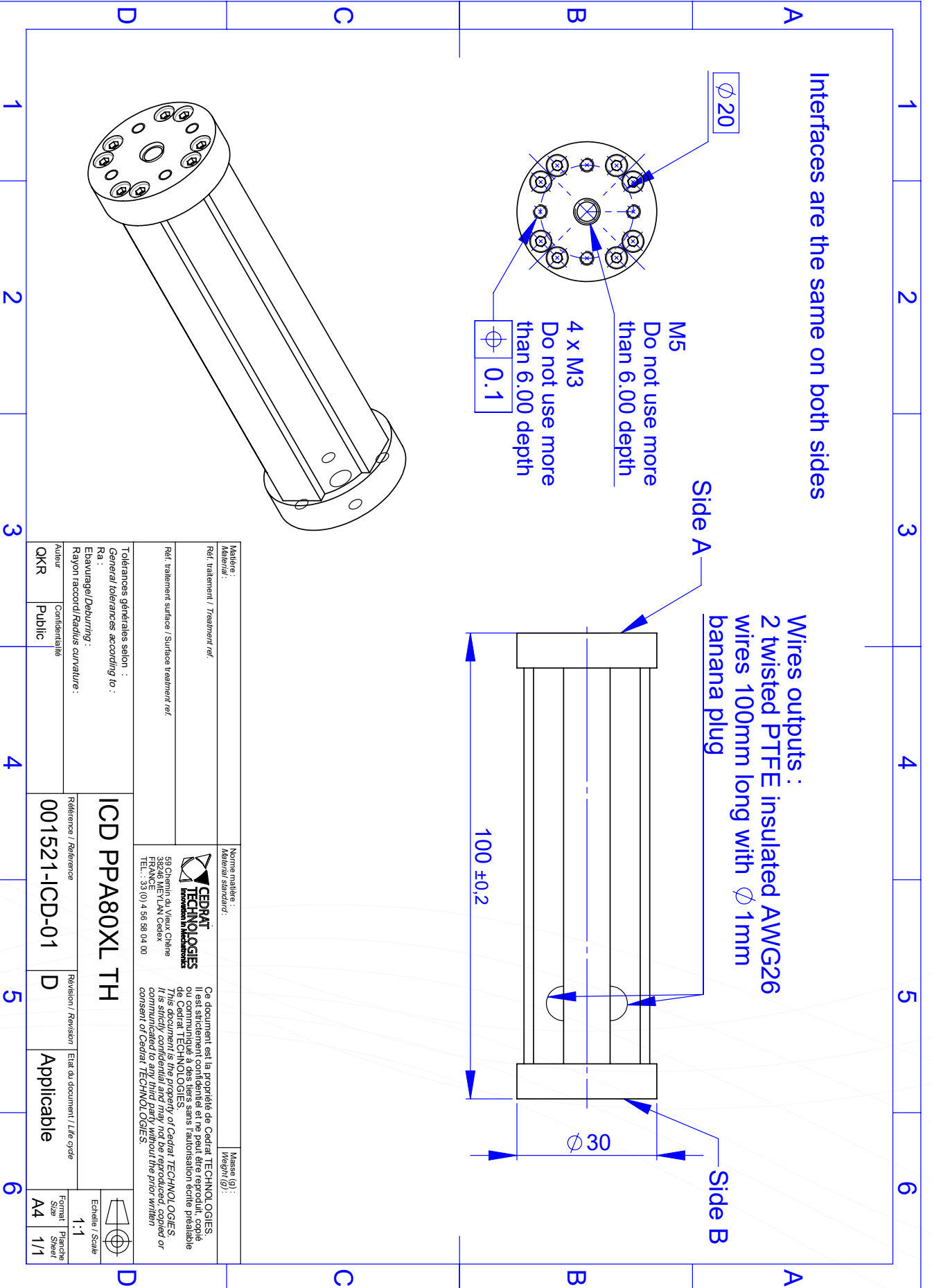
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;200Hz]

(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



Matière : Material :		Norme matière : Material standard :		Masse (g) : Weight (g) :	
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Réf. traitement surface / Surface treatment ref.		59 Chemin du Vieux Chêne 38246 MEYLAN Cedex TEL. : +33 (0) 4 56 58 04 00		Etat du document / Life cycle	
Tolérances générales selon : General tolerances according to :		ICD PPA80XL TH		Applicable	
Ra :		Révision / Revision		D	
Ebauvage/Deburring :		001521-ICD-01		1 : 1	
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