

KEY FEATURES

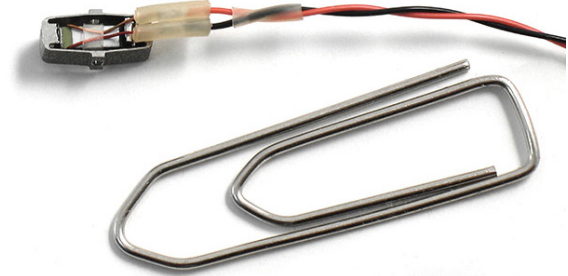
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > Mechanical Amplification
- > Compact Size
- > High Resolution

RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers

AVAILABLE OPTIONS

- > Vacuum compatibility
- > Ultra High Vacuum
- > Non magnetic shell



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
> Quasistatic performances		
Nominal Stroke	34	µm
Min stroke	31	µm
Resolution ⁽¹⁾	1.9	nm
Blocked force	3.7	N
Stiffness	0.11	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	25000	Hz
Resonance frequency (blocked-free) ⁽³⁾	4 800	Hz
Force limit ⁽⁴⁾	7.5	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	0.043	µF
> Dimensions & interfaces		
Height	4	mm
Length	9	mm
Width incl wires	5	mm
Mass	0.15	g
> Standard mechanical interfaces	See ICD	
> Electrical interface	See ICD	

ANNOTATIONS

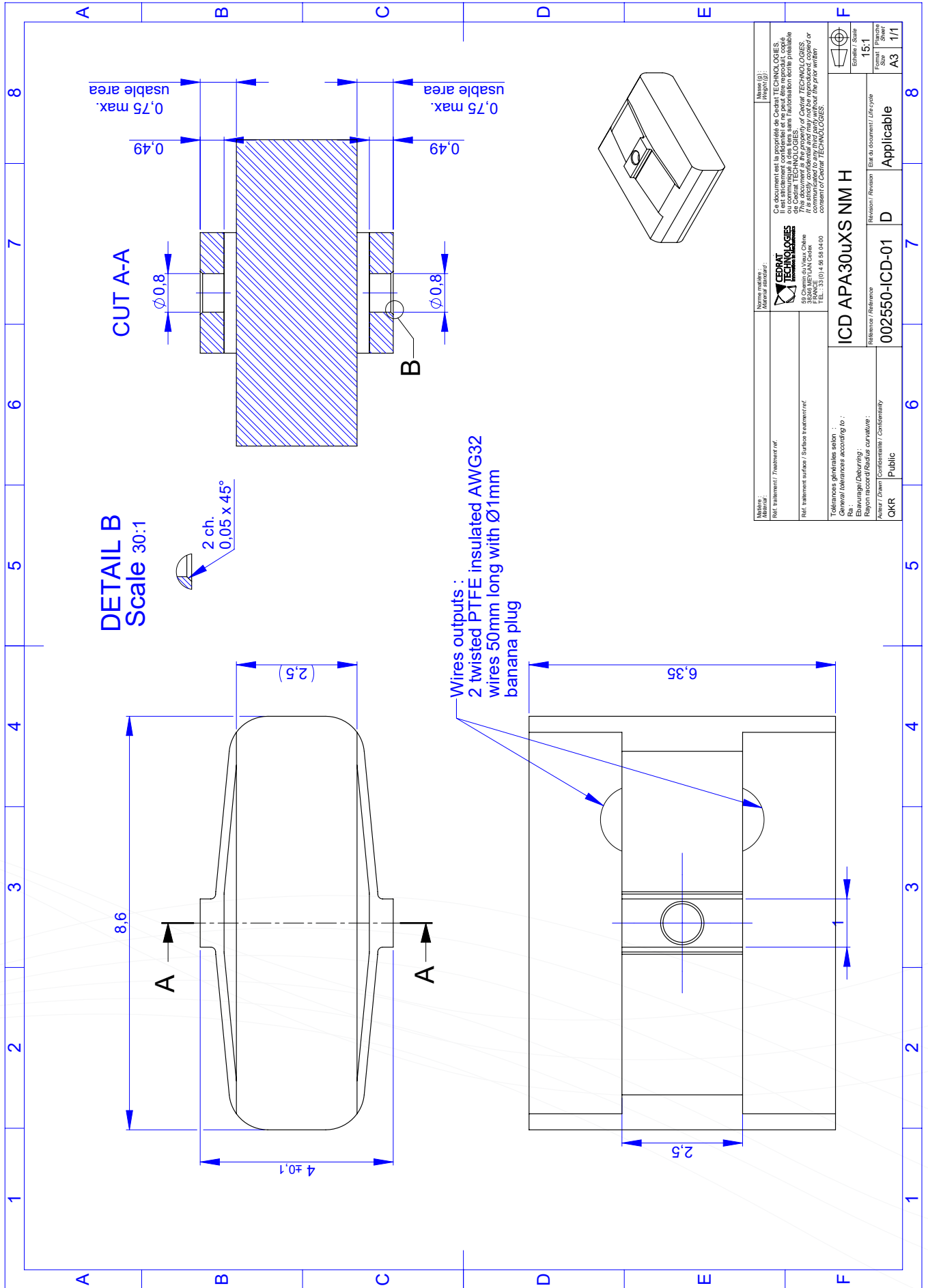
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85 dB computed as RMS output signal / RMS output Noise floor at [0;200 Hz]

(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



Norme / Matière / Traitement / Ref		Matière (s) / Matière / Matière	
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Général / Dimensions according to : Echantillon / Dabouring : Rayon raccord / Radius curvature : Auteur / Drawn : Vérificateur / Confirmer : OKR / Public		ICD APA30uXS NM H 002550-ICD-01 D Applicable	
Etat du document / Life cycle		Échelle / Scale	
151		A3 / 1/1	