

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	66	µm
Min stroke	59	µm
Resolution ⁽¹⁾	3.7	nm
Blocked force	16	N
Stiffness	0.24	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	12000	Hz
Resonance frequency (blocked-free) ⁽³⁾	2 700	Hz
Force limit ⁽⁴⁾	13	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	0.30	µF
> Dimensions & interfaces		
Height	5	mm
Length	13	mm
Width incl wires	9	mm
Mass	2.0	g
> Standard mechanical interfaces	See ICD	
> Electrical interface	See ICD	

ANNOTATIONS

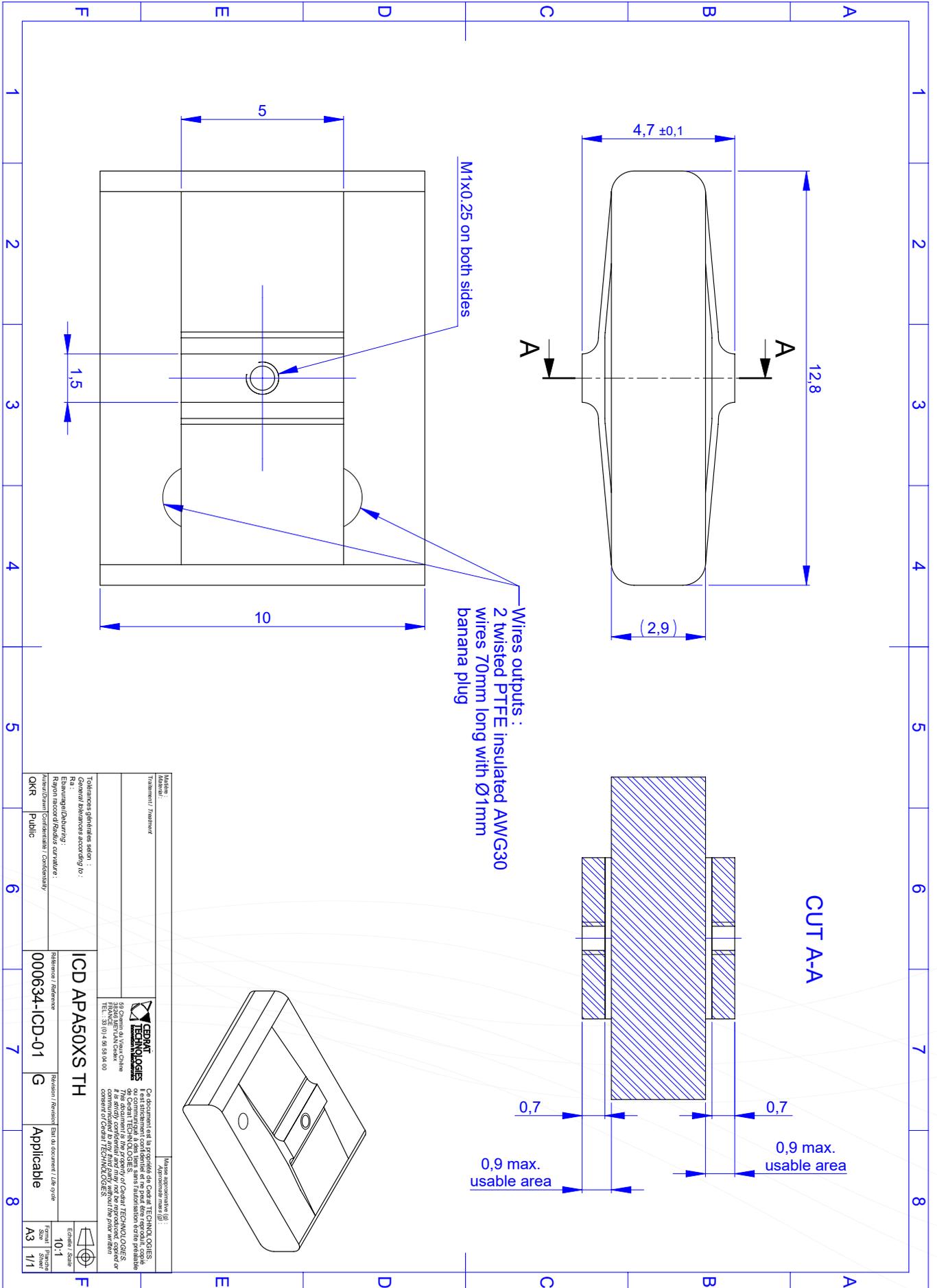
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85 dB computed as RMS output signal /RMS output Noise floor at [0;200 Hz]

(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



<p>Material: Aluminium</p> <p>Treatment: Trepanner</p>		<p>Reference / Référence: ICD APA50XS TH</p>		<p>Revision / Révision: G</p>		<p>Applicable</p>	
<p>Tolerances générales selon : ISO 2768</p> <p>General tolerances according to: ISO 2768</p>		<p>Relevé / Relevé: 000634-ICD-01</p>		<p>Scale / Échelle: A3</p>		<p>Sheet / Feuille: 1/1</p>	
<p>Elaboré / Elaboré: Public</p> <p>Revisé / Révisé: Public</p>		<p>Author / Auteur: OKR</p>		<p>Drawn / Dessiné: OKR</p>		<p>Checked / Vérifié: OKR</p>	
<p>Approved / Approuvé: OKR</p>		<p>Released / Relâché: OKR</p>		<p>Released / Relâché: OKR</p>		<p>Released / Relâché: OKR</p>	

