

KEY FEATURES

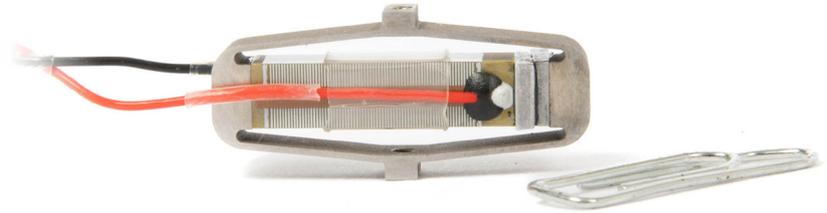
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > Mechanical Amplification
- > Compact Size
- > High Resolution

RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers
- > Evaluation pack EP120 S

AVAILABLE OPTIONS

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



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
> Quasistatic performances		
Nominal Stroke	140	µm
Min stroke	130	µm
Resolution ⁽¹⁾	7.9	nm
Blocked force	46	N
Stiffness	0.33	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	7 200	Hz
Resonance frequency (blocked-free) ⁽³⁾	1 300	Hz
Force limit ⁽⁴⁾	32	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	1.1	µF
> Dimensions & interfaces		
Height	13	mm
Length	29	mm
Width incl wires	9	mm
Mass	7.2	g
> Standard mechanical interfaces	See ICD	
> Electrical interface	See ICD	

ANNOTATIONS

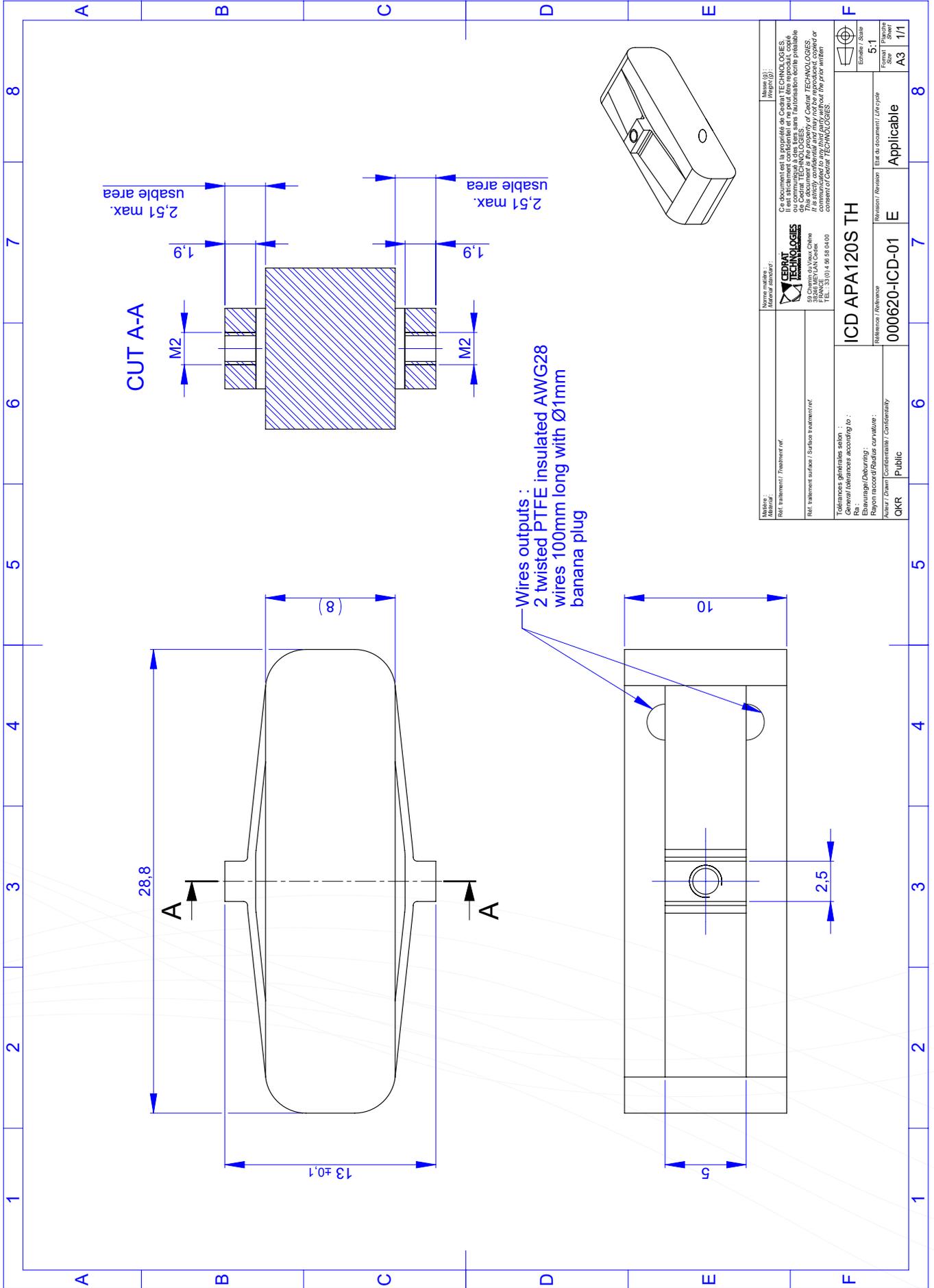
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85 dB computed as RMS output signal /RMS output Noise floor at [0;200 Hz]

(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 : Matière standard : Norme(s) : Matière(s) :	Matière(s) : Matière(s) : Matière(s) : Matière(s) :
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Tolérances générales selon : Général tolerances according to : Ebenmaßregeln (DIN 1875) Rayon accord / Radius curvature : Autor / Drawn : Confidentialité / Confidentiality : OKR Public	ICD APA120S TH Révision / Revision : 000620-ICD-01 E Applicable
Échelle / Scale : 5:1 Format / Page : A3 Page : 1/1	8