

## KEY FEATURES

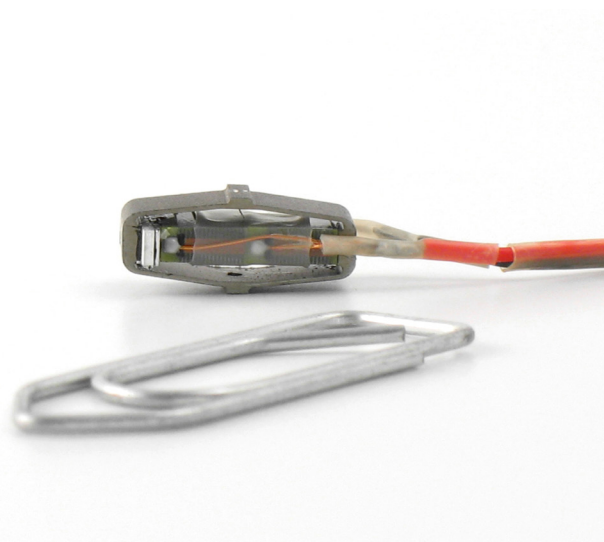
- > Low voltage piezo ceramic
- > Optimal preload for high dynamics
- > Mechanical Amplification
- > Compact Size
- > High Resolution

## RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers

## AVAILABLE OPTIONS

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



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
<b>&gt; Quasistatic performances</b>		
Nominal Stroke	52	µm
Min stroke	47	µm
Resolution <sup>(1)</sup>	2.9	nm
Blocked force	27	N
Stiffness	0.52	N/µm
<b>&gt; Dynamic performances</b>		
Resonance frequency (free-free) <sup>(2)</sup>	18000	Hz
Resonance frequency (blocked-free) <sup>(3)</sup>	3 900	Hz
Force limit <sup>(4)</sup>	37	N
<b>&gt; Control &amp; driving</b>		
Voltage range	-20 ... 150	V
Capacitance <sup>(5)</sup>	0.30	µF
<b>&gt; Dimensions &amp; interfaces</b>		
Height	6	mm
Length	13	mm
Width incl wires	9	mm
Mass	2.0	g
<b>&gt; Standard mechanical interfaces</b>	See ICD	
<b>&gt; Electrical interface</b>	See ICD	

## ANNOTATIONS

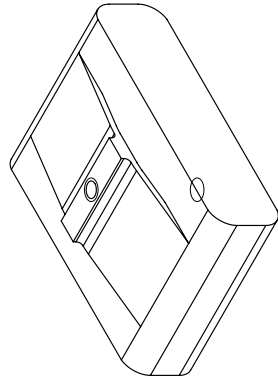
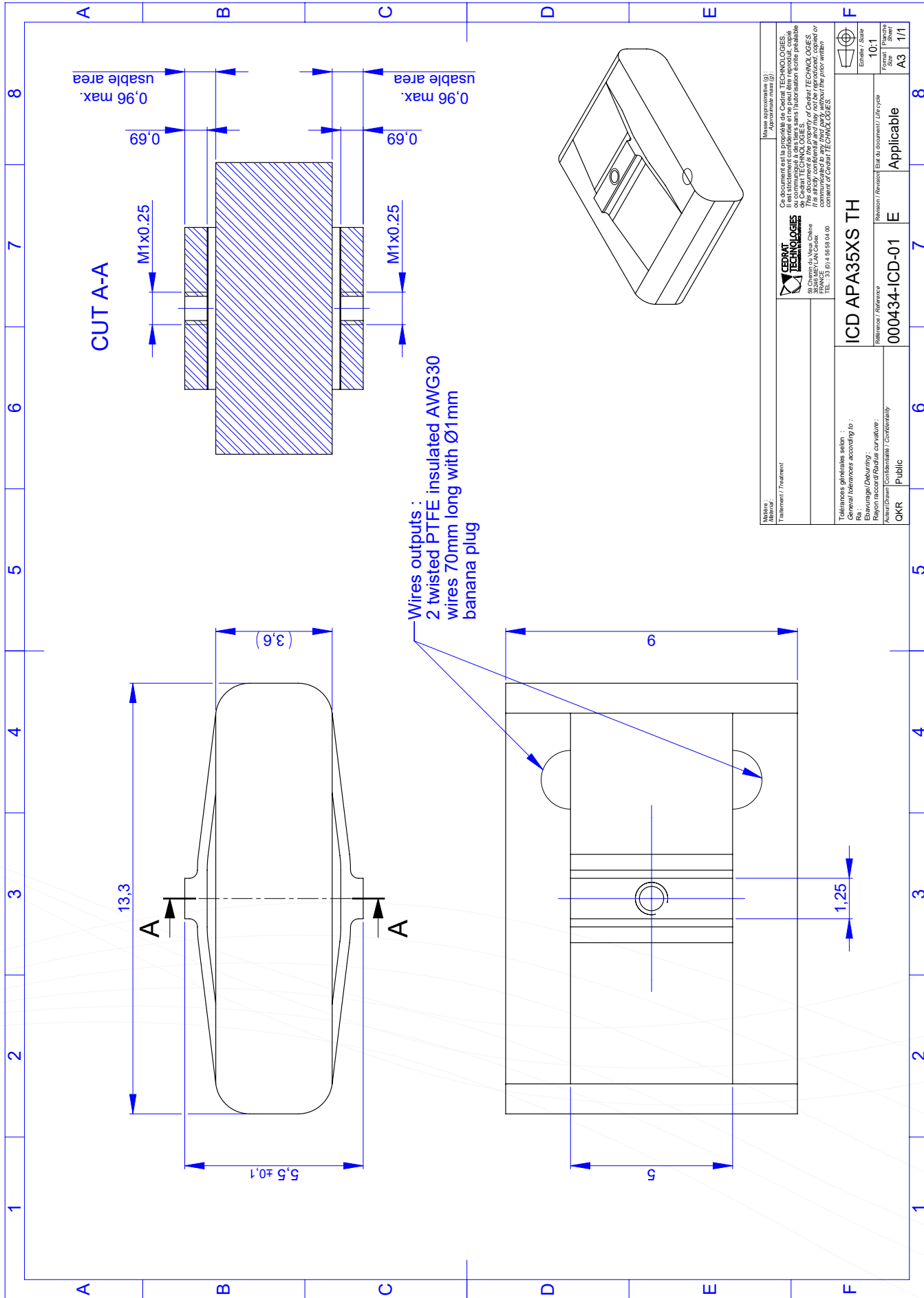
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;200Hz]

(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



<p>Modèle : ICD APA35XS TH                  Traitement / Treatment : 000434-ICD-01</p>		<p>Mise au point (9) :                  Révisé / Revisé :                  Ce document est la propriété de CEDRAT TECHNOLOGIES. Il est strictement confidentiel et ne peut être reproduit, copié ou communiqué à un tiers sans l'autorisation écrite préalable de CEDRAT TECHNOLOGIES.                  This document is the property of CEDRAT TECHNOLOGIES. It is strictly confidential and may not be reproduced or communicated to any third party without the prior written consent of CEDRAT TECHNOLOGIES.</p>	
<p>Tolérances générales selon :                  Général tolerances according to :                  Echantillon / Drawing :                  Rayon raccord / Radius curvature :                  Ajust / Drawn / Conditionally / Conditionality</p>		<p>ICD APA35XS TH                  Révision / Revision :                  000434-ICD-01</p>	
<p>OKR Public</p>		<p>Applicable</p>	
<p>Unité / Scale : 10:1</p>		<p>Format / Page : A3 / 1/1</p>	