

### 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
<b>&gt; Quasistatic performances</b>		
Nominal Stroke	20	μm
Min stroke	18	μm
Resolution <sup>(1)</sup>	1.1	nm
Blocked force	850	N
Stiffness	44	N/μm
<b>&gt; Dynamic performances</b>		
Resonance frequency (free-free) <sup>(2)</sup>	39000	Hz
Resonance frequency (blocked-free) <sup>(3)</sup>	20000	Hz
Force limit <sup>(4)</sup>	500	N
<b>&gt; Control &amp; driving</b>		
Voltage range	-20 ... 150	V
Capacitance <sup>(5)</sup>	1.1	μF
<b>&gt; Dimensions &amp; interfaces</b>		
Height	28	mm
Length	10	mm
Width incl wires	9	mm
Mass	12	g
<b>&gt; Standard mechanical interfaces</b>	See ICD	
<b>&gt; Electrical interface</b>	See ICD	

### ANNOTATIONS

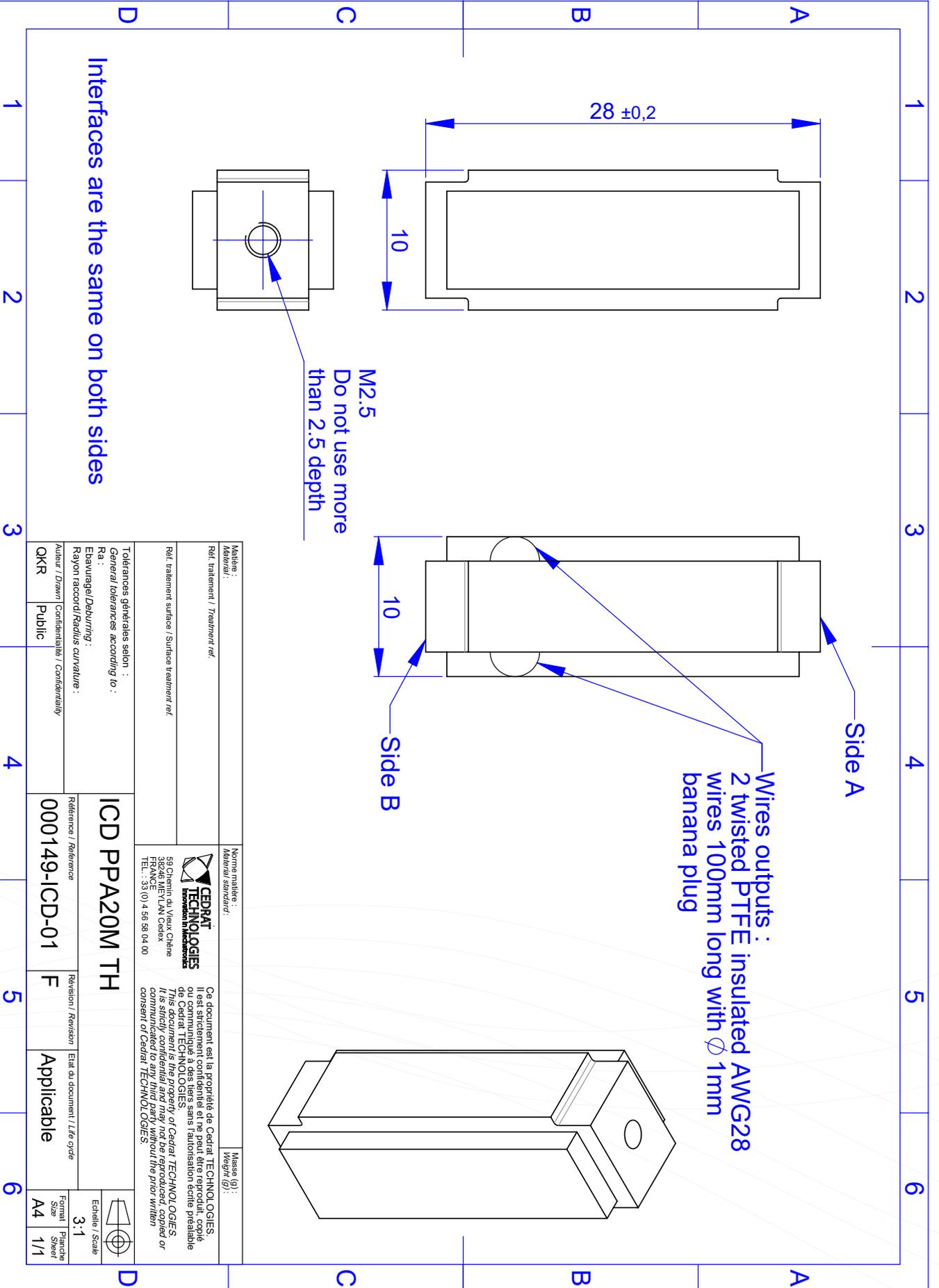
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85 dB computed as RMS output signal /RMS output Noise floor at [0;200 Hz]

(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



Matière : Matériau :		Norme matière : Matériau standard :		Masse (g) : Weight (g) :	
Réf. traitement / Treatment ref.		 59 Chemin du Vieux Chêne 38246 MEYLAN Cedex TEL. : +33 (0) 4 56 58 04 00		Ce document est la propriété de Cedrat TECHNOLOGIES. Il est strictement confidentiel et ne peut être reproduit, copié ou communiqué à des 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.	
Réf. traitement surface / Surface treatment ref.		<b>ICD PPA20M TH</b>		Etat du document / Life cycle	
Tolérances générées selon : General tolerances according to :		Révision / Revision		Applicable	
Ra :		000149-ICD-01		F	
Ebavurage/Deburring :		000149-ICD-01		F	
Rayon raccordi/Radius curvature :		000149-ICD-01		F	
Auteur / Drawn		Confidentialité / Confidentiality		A4	
QKR		Public		1/1	
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A4		1/1			