

### APPLICATIONS

- > Fast and precise positioning
- > Dynamic applications

### KEY FEATURES

- > Parallel Pre-stressed Actuator
- > Low voltage piezo ceramic
- > Compact size
- > Non magnetic option available

### RELATED PRODUCTS

- > CTEC benchtop controllers
- > CTEC OEM controllers

### AVAILABLE OPTIONS

- > SG sensor
- > Vacuum compatibility
- > Ultra High Vacuum
- > Thermocouple sensor

### AVAILABLE VARIANTS

- > Non magnetic shell

### AVAILABLE INTERFACES

- > Threaded hole



PARAMETER	VALUE	UNIT
<b>&gt; Quasistatic performances</b>		
Nominal Stroke	43	µm
Min stroke	39	µm
Resolution <sup>(1)</sup>	2.4	nm
Blocked force	9 000	N
Stiffness	210	N/µm
<b>&gt; Dynamic performances</b>		
Resonance frequency (free-free) <sup>(2)</sup>	14 000	Hz
Resonance frequency (blocked-free) <sup>(3)</sup>	8 000	Hz
Force limit <sup>(4)</sup>	3 300	N
<b>&gt; Control &amp; driving</b>		
Voltage range	-20 ... 150	V
Capacitance <sup>(5)</sup>	17	µF
<b>&gt; Dimensions &amp; interfaces</b>		
Height	60	mm
Length	30	mm
Width incl wires	30	mm
Mass	250	g
Standard mechanical interfaces	2 flat surfaces with 1 centered M5 threaded hole 6mm deep & 4 M3 threaded holes on Ø20mm 6mm deep	
Electrical interface	2 PTFE insulated AWG26 wires 100mm long with Ø1 banana plug	

### ANNOTATIONS

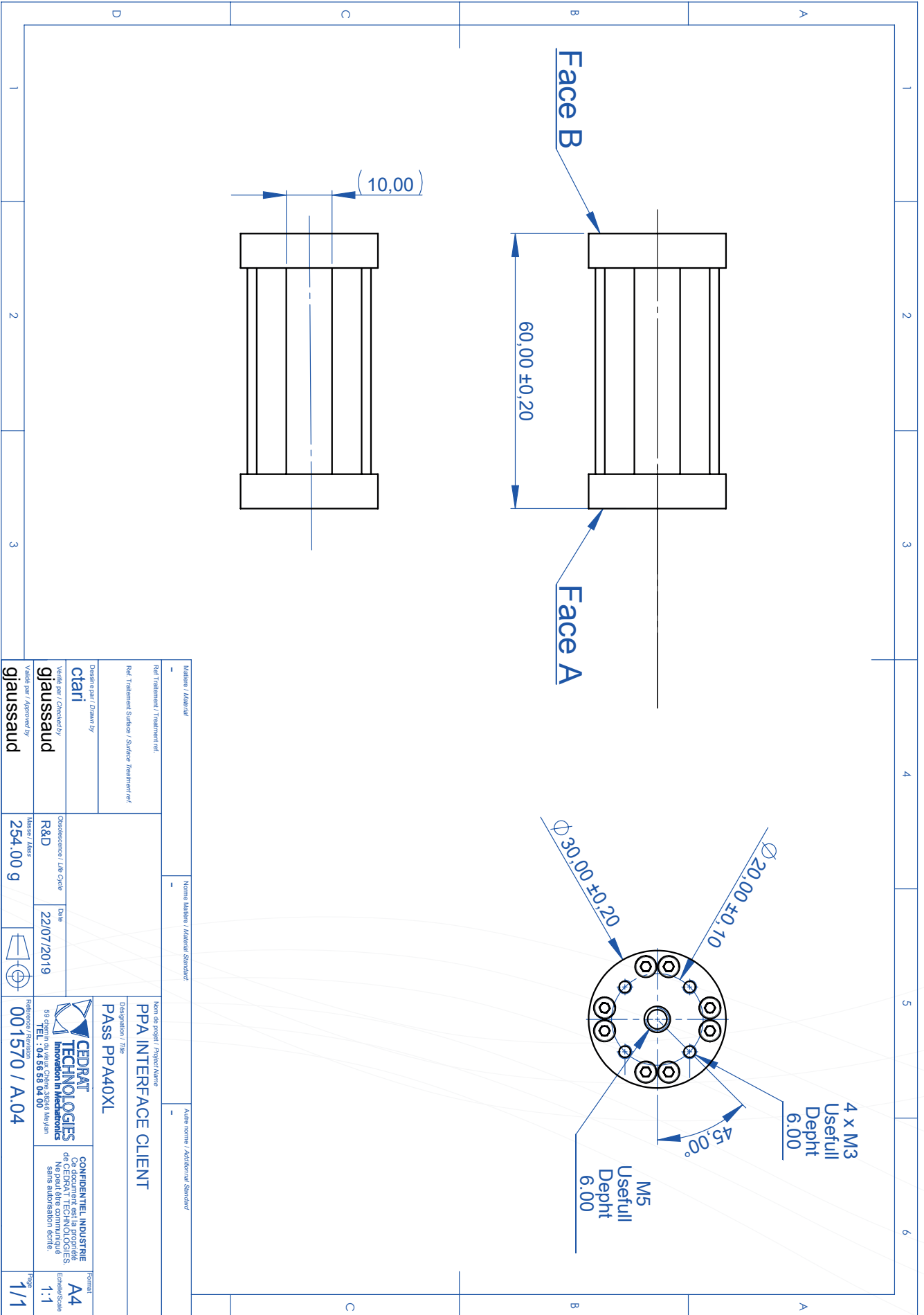
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;2Hz]

(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



Matériau / Material		Norme Matière / Material Standard		Autre norme / Additional Standard	
Ref Traitement / Treatment ref					
Ref Traitement Surface / Surface Treatment ref					
Dessiné par / Drawn by		Conception / Lie-Cat		Date	
clari		R&D		22/07/2019	
Validé par / Checked by		Masse / Mass		Révision / Revision	
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Validé par / Approved by		glaussaud		001570 / A.04	
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