

### 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

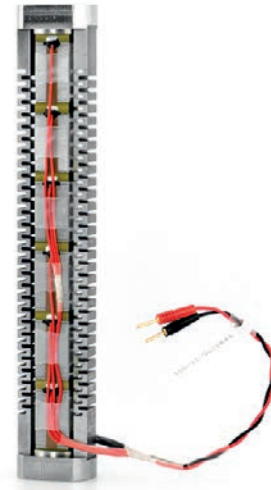
- > SG sensor
- > Vacuum compatibility
- > Ultra High Vacuum
- > Thermocouple sensor

### AVAILABLE VARIANTS

- > Non magnetic shell

### AVAILABLE INTERFACES

- > Threaded hole



NON CONTRACTUAL PICTURE

PARAMETER	VALUE	UNIT
<b>&gt; Quasistatic performances</b>		
Nominal Stroke	130	μm
Min stroke	120	μm
Resolution <sup>(1)</sup>	7.3	nm
Blocked force	4 700	N
Stiffness	36	N/μm
<b>&gt; Dynamic performances</b>		
Resonance frequency (free-free) <sup>(2)</sup>	6 300	Hz
Resonance frequency (blocked-free) <sup>(3)</sup>	3 300	Hz
Force limit <sup>(4)</sup>	1 500	N
<b>&gt; Control &amp; driving</b>		
Voltage range	-20 ... 150	V
Capacitance <sup>(5)</sup>	26	μF
<b>&gt; Dimensions &amp; interfaces</b>		
Height	137	mm
Length	24	mm
Width incl wires	18	mm
Mass	190	g
Standard mechanical interfaces	2 flat surfaces with 1 centered M3 threaded hole 5mm deep & 4 M2.5 threaded holes on Ø15mm 4mm deep	
Electrical interface	2 PTFE insulated AWG26 wires 100mm long with Ø1 banana plug	

### ANNOTATIONS

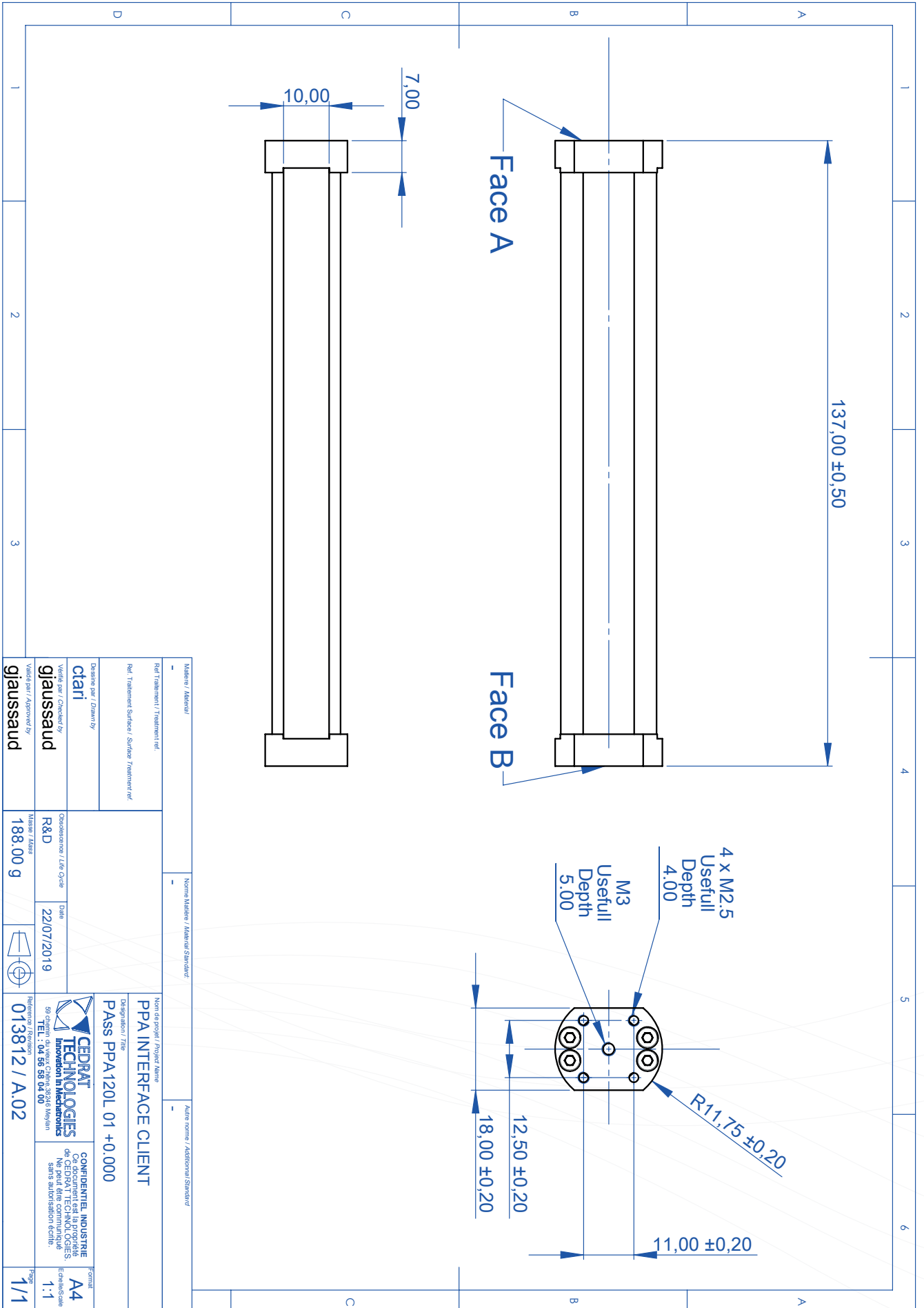
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;2Hz]



(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					
ctari					
Vérifié par / Checked by		Qualité / Life Cycle		Date	
gjaussaud		R&D		22/07/2019	
Vérifié par / Approved by		Masse / Mass		Référence / Ref.	
gjaussaud		188,00 g		013812 / A.02	
Nom de projet / Project Name		PPA INTERFACE CLIENT			
Désignation / Title		PASS PPA120L 01 +0.000			
 <p>CEDRAT TECHNOLOGIES Innovation in Mechatronics</p>		 <p>COMPONENTEL INDUSTRIE Ce document est la propriété de CEDRAT TECHNOLOGIES. Ne peut être communiqué sans autorisation écrite.</p>		Format A4 Echelle 1:1 Page 1/1	