

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
> Quasistatic performances		
Nominal Stroke	130	µm
Min stroke	120	µm
Resolution ⁽¹⁾	7.3	nm
Blocked force	9 300	N
Stiffness	71	N/µm
> Dynamic performances		
Resonance frequency (free-free) ⁽²⁾	6 200	Hz
Resonance frequency (blocked-free) ⁽³⁾	3 300	Hz
Force limit ⁽⁴⁾	2 900	N
> Control & driving		
Voltage range	-20 ... 150	V
Capacitance ⁽⁵⁾	51	µF
> Dimensions & interfaces		
Height	140	mm
Length	30	mm
Width incl wires	30	mm
Mass	380	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

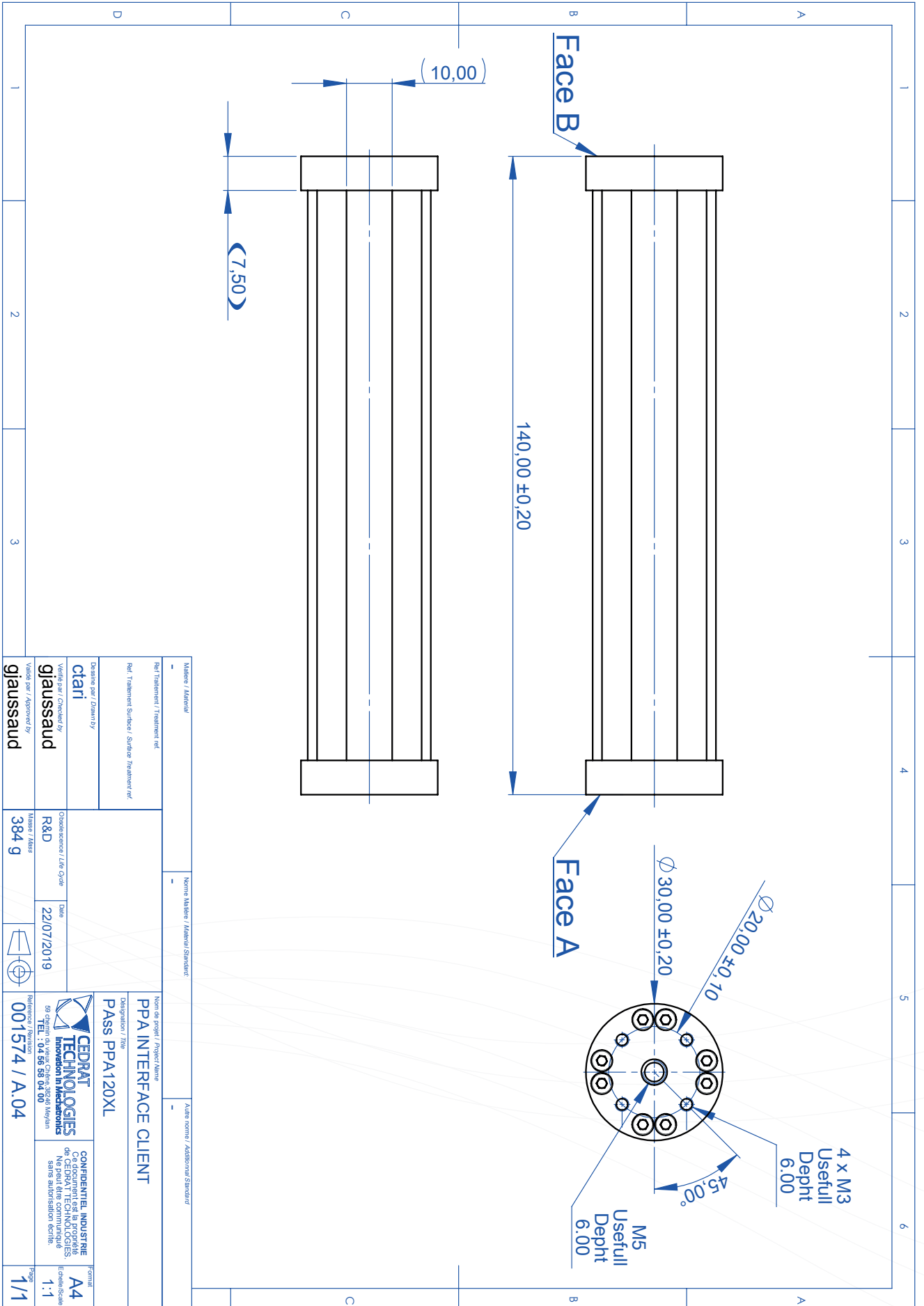
(1) Quasistatic excitation. With standard LA75 range amplifier. SNR=85dB computed as RMS output signal /RMS output Noise floor at [0;2Hz]

(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 Matériau / Material Standard		Autre norme / Additional Standard	
Ref. Traitement / Treatment ref.					
Ref. Traitement Surface / Surface Treatment ref.					
Dessiné par / Drawn by		Omniscience / Line Code		Date	
ctari		R&D		22/07/2019	
Vérifié par / Checked by		Mission / Asses		Référence / Revision	
glaussaud		384 g		001574 / A.04	
Validé par / Approved by		glaussaud		Formet	
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