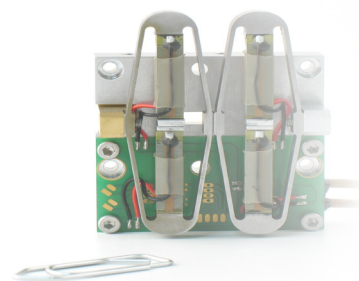


TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

The properties defined in the table below, are set up according to the technical conditions of use and measurement. These properties are warranted within their variation range and in compliance with the standard technical conditions of use.



PROPERTIES	STANDARD TECHNICAL CONDITIONS	UNIT	NOMINAL VALUES	MIN. VALUES	MAX. VALUES
Notes			-	-	-
Sensors option	SG		SG	-	-
Active axis	TX		-	-	-
Max. No-load displacement	Quasistatic excitation, blocked-free	μm	400	360	460
Max. beam diameter	Quasistatic excitation, blocked-free	mm	0.3	-	-
Stiffness	Quasistatic excitation, blocked-free	N/μm	0.32	0.26	0.35
Height (Z axis)	Quasistatic excitation, blocked-free	mm	21	20.80	21.20
Dimensions (X & Y axis)		mm	60 * 44	-	-
Mass		g	150.0	142.5	157.5
Unloaded resonance frequency (in the actuation's direction)	Harmonic excitation, blocked-free, on the admittance curve	Hz	900	810	1035
Response time	Quasistatic excitation, blocked-free	ms	0.56	0.50	0.64
Capacitance (per electrical port)	Quasistatic excitation, blocked-free	μF	3.15	2.84	4.10
Mechanical interfaces (payload)	4 slits (width 0.6 mm)			-	-
Mechanical interfaces (frame)	4 holes Ø 2.7mm on □ 24*38 mm			-	-
Electrical interfaces	2 RG178B/U coaxial cables			-	-

PROPERTIES STANDARD TECHNICAL CONDITIONS OF USE AND MEASUREMENT

Free-free :	The actuator is not fixed
Blocked-free :	The actuator is fixed to a mechanical support assumed infinitely stiff
Quasistatic excitation :	AC voltage between -20 and 150 V at 1 Hz
Harmonic excitation :	Voltage of 0.5 Vrms, sinusoidal mode from 0 to 100 kHz
Max. harmonic excitation :	Voltage defined by the measurement of max. displacement, sinus at resonance frequency
Displacement measurement :	Laser interferometer, capacitive displacement sensor
Admittance measurement :	HP 4194 A or Cypher C60 electrical impedance analyser
Environment :	Ambient temperature (15-25°C) and dry air (Humidity < 50 % rH)

Any technical conditions of use, different from those defined above, can lead to temporary or definitive alterations of properties. Thank you to contact CEDRAT TECHNOLOGIES before using actuators under non standard technical conditions.

FACTORY TESTS CARRIED OUT

- Test 1 : Electrical admittance vs. Frequency, free-free
- Test 2 : Displacement vs. input voltage

OPTIONAL EXTRA FACTORY TESTS

- Test 3 : Gain and linearity of the sensor
- Test 4 : Step response in closed loop
- Test 5 : Stability in closed loop

AVAILABLE OPTIONS

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> [SG] Strain gauges | <input checked="" type="checkbox"/> [ECS] Eddy current displacement sensor | <input checked="" type="checkbox"/> [SI] Specific interface |
| <input type="checkbox"/> [NM] Non-magnetic | <input checked="" type="checkbox"/> [VAC] Vacuum | <input checked="" type="checkbox"/> [SV] Specific version / customization |
| <input checked="" type="checkbox"/> [SIW] Slits in tungstene alloy | | |

➤ 2D CONFIGURATION

