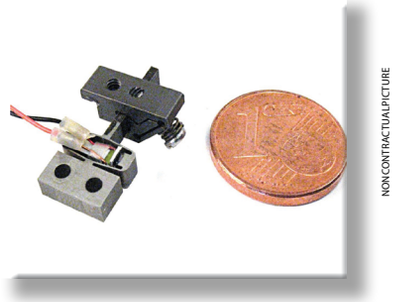
TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

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.



NON CONTRACTUAL PICTURE

PROPERTIES	STANDARD TECHNICAL CONDITIONS	UNIT	NOMINAL VALUES	MIN. VALUES	MAX. VALUES
Notes			-		
Base			APA30uXS		
Mastered motions			TX		
Max. No-load displacement	Limited by shaft length	mm	6	5.40	6.60
Holding force without cunsomption		N	0.80	0.54	1.06
Max speed	Unloaded, with adapted driver	mm/s	70	42	91
Max step size	Unloaded, with adapted driver	µm	46.67	28.00	60.67
Max driving force		N	0.30	0.24	0.36
Typical max loading	With adapted guidance	gr	15	10.50	16.50
Typical working frequency		Hz	1500	1350	1650
Typical stepping mode resolution		µm	1	0.90	1.10
Deformation stroke	Quasistatic excitation, blocked-free	µm	36.64	32.98	47.63
Linear resolution		nm	0.37	0.22	0.48
Stiffness	Harmonic excitation, blocked-free, on the admittance curve	N/µm	0.09	0.07	0.10
Capacitance		µF	0.05	0.05	0.07
Voltage range		V	-20 … 150		
Typical Lifetime	Unloaded, 2mm stroke, full speed, 50% duty-cycle	cycles	1000000	700000	1400000
Heigth		mm	5.60	5.04	6.16
Width		mm	8.80	7.92	9.68
Length		mm	19.15	17.24	21.07
Mass		g	1.90	1.71	2.09
Unloaded resonance frequency (in the actuation's direction)	Harmonic excitation, blocked-free, on the admittance curve	Hz	2000	1700	2200
Mechanical interfaces (payload)			1 x M2 dep. 3		
Mechanical interfaces (frame)			2 x diam 1.8 holes		
Electrical interfaces			2 PTFE insulated AWG30 wires 50mm long with Ø 1		

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LSPA30uXS CONFIGURATION