

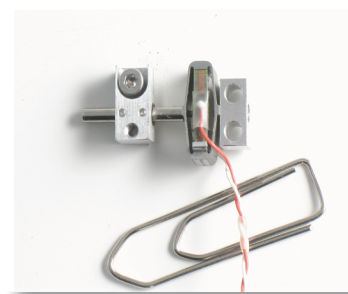
> CTEC: COMPACT, DYNAMIC, PRECISE

Dynamic conditions are particularly challenging! They require systems capable of generating or handling large accelerations. Reactivity and reliability of actuators developed by CTEC make them unique for high dynamic applications.

However integration and loading conditions being equally important, we invite you to get in touch with our engineers at actuator@cedrat-tec.com to discuss your application.

> 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			Preliminary data		
Base			APA35XS		
Mastered motions			TX		
Max. No-load displacement		mm	10	9	11
Holding force without consumption		N	3	2.01	3.99
Max speed	Unloaded, with adapted driver	mm/s	30	18	39
Max step size	Unloaded, with adapted driver	μm	14.29	8.57	18.57
Max driving force		N	1	0.80	1.20
Typical max loading	With adapted guidance	gr	30	21	33
Typical working frequency		Hz	2100	1890	2310
Typical stepping mode resolution		μm	1	0.90	1.10
Deformation stroke	Quasistatic excitation, blocked-free	μm	54.51	49.06	70.86
Linear resolution		nm	0.55	0.33	0.71
Stiffness	Harmonic excitation, blocked-free, on the admittance curve	N/μm	0.50	0.40	0.54
Capacitance		μF	0.25	0.23	0.33
Voltage range		V	-20 ... 150		
Typical Lifetime	Unloaded, 2mm stroke, full speed, 50% duty-cycle	cycles	1000000	700000	1400000
Height		mm	12	10.80	13.20
Width		mm	16.00	14.40	17.60
Length		mm	30	27	33
Mass		g	5	4.50	5.50
Unloaded resonance frequency (in the actuation's direction)	Harmonic excitation, blocked-free, on the admittance curve	Hz	2800	2380	3080
Mechanical interfaces (payload)			"M2 dep. 3 + 2x diam 1.05 dep. 1"		
Mechanical interfaces (frame)			2 x diam 2.4 holes		
Electrical interfaces			2 PTFE insulated AWG30 wires 50mm long with Ø 1 banana plug		

