

ANGp101

open loop goniometer for high loads providing Φ -positioning

Technical Specifications

Technology		Compatibility with Electronics	
travel mechanism	inertial piezo drive	ANC300 piezo positioning controller	all versions
		ANC350 piezo positioning controller	all versions
Size and Dimensions		Working Conditions	
footprint; height	24 x 24; 11 mm	mounting orientation	axis horizontal
maximum size	28.6 x 24; 11.8 mm	magnetic field range	0 .. 31 T
distance center of rotation to bottom	62 mm (above center)	temperature range (/RT, /HV, /UHV)	0 .. 100 °C
weight	18 g	temperature range (/LT, /LT/HV, /LT/UHV)	10 mK .. 373 K
		max. bake out temperature (/UHV, /LT/UHV)	150 °C
Coarse Positioning Mode			
	@ 300 K		@ 4 K
input voltage range	0 .. 60 V	minimum pressure (/RT, /LT)	1E-4 mbar
typical actuator capacitance	1.05 μ F	minimum pressure (/HV, /LT/HV)	1E-8 mbar
travel range (step mode)	5.4°	minimum pressure (/UHV, /LT/UHV)	5E-11 mbar
typical minimum step size	0.1 m°		
maximum drive velocity	\approx 1°/s		
Fine Positioning Mode		Accuracy of Movement	
fine positioning range	no fine positioning capability	repeatability of step sizes	typically 5 % over full range
		forward / backward step asymmetry	typically 5 %
Materials (non-magnetic)		Connectors and Feedthroughs	
positioner body	titanium (other materials on request)	/RT, /LT Versions	all /HV, /UHV Versions
actuator	PZT ceramics	connector type	2-pole pin plug, \emptyset 0.5 mm, d = 2 mm, integrated connector
connecting wires	insulated twisted pair, copper	electrical feedthrough solution	VFT/LT
			30 cm cable with connector
			VFT/HV, VFT/UHV
Load		mounting orientation: axis horizontal (@ 300 K)	
maximum load	1 N (100 g)		
maximum static force along the axis	3 N		
maximum dynamic force along the axis	2 N		
Mounting			
from the top	2 through holes dia 2.2 mm, cntrbr. f. M2		
from the bottom	2 threads M2.5 x 6 mm		
load on top	6 threads M2 x 3 mm		
Article Numbers			
/RT Version	1002738		
/HV Version	1002739		
/UHV Version	1002740		
/LT Version	1002741		
/LT/HV Version	1002742		
/LT/UHV Version	1002743		

Technical Drawings

