

ANGt101

open loop goniometer for Θ -positioning

Technology			Compatibility with Electronics				
travel mechanism	inertial piezo drive		ANC300 piezo positioning controller		ANM150, ANM300		
Size and Dimensions							
footprint; height	24 x 24; 11 mm		Working Conditions				
maximum size	28.6 x 24; 11.8 mm		mounting orientation		axis horizontal		
distance center of rotation to bottom	51 mm (above center)		magnetic field range			031T	
weight	18 g		temperature range (/RT, /HV, /UHV)		0100°C		
			temperature range (/LT, /LT/HV,		10 mK 373	3 K	
Coarse Positioning Mode	@ 300 K	@ 4 K	max. bake out temperature (/UHV, /LT/UHV)		150 °C		
input voltage range	060 V	0 60 V	minimum pressure (/RT, /LT)		1E-4 mbar		
typical actuator capacitance	1.05 μF	0.15 μF	minimum pressure (/HV, /LT/HV)		1E-8 mbar		
travel range (step mode)	6.6°	6.6°	minimum pressure (/UHV, /LT/UHV)		5E-11 mbar		
typical minimum step size	0.1 m°	20 μ°					
maximum drive velocity	≈ 1 °/s		Accuracy of Movement				
			repeatability of step sizes forward / backward step asymmetry		typically 5 % over full range typically 5 %		
Fine Positioning Mode	<u> </u>						
fine positiong range	no fine position	ing capability	Connectors and Feedthroughs	/RT, /LT Ver	rcione	all /HV, /UHV Versions	
Materials (non-magnetic)			connector type	2-pole pin p		2-pole pin plug (PEEK),	
positioner body	titanium (upgrade option: beryllium copper)			ø 0.5 mm, d	-	ø 0.5 mm, d = 2 mm,	
actuator	PZT ceramics			integrated of		30 cm cable with connecto	
connecting wires	insulated twisted pair, copper		electrical feedthrough solution	VFT/LT		VFT/HV, VFT/UHV	
Load (@ ambient conditions)	mounting orientation: axis horizontal						
maximum load	1 N (100 g)						
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	1002732						
/HV Version	1002733						
/UHV Version	1002734						
/LT Version	1002735						
/LT/HV Version	1002736						
	1002737						



