

ANSz50

compact open loop z-scanner for 1" scanning probe applications

Technology		Compatibility with Electronics				
travel mechanism	piezo driven lever arm mechanism		ANC300 piezo positioning controller		ANM200, ANM300	
and Dimensions		ANC350 piezo positioning controller Analog voltage amplifier		ANC350 scan and readout controller ANC250		
footprint; height	15 x 15; 6 mm		Allatog voltage alliptillel		ANCZOU	
weight	4.5 q		Accuracy of Movement			
gc	9		repeatability of step sizes		no coarse nosit	ioning capability
Fine Positioning Mode	@ 300 K	@ 4 K	scan repeatability		typically 0.1 %	
fine positiong range	4.3 μm	2 μm	forward / backward step asymmetry		no coarse positioning capability	
input voltage range	0 60 V	0 150 V	creep		typically 0.5 - 0.8 % per decade of time	
typical actuator capacitance	2.5 μF	0.35 μF	linearity		typically 5 - 10 %	
fine positioning resolution	sub-nm		•		515 .	
			Working Conditions			
			mounting orientation		scanner moving vertically	
Materials (non-magnetic)			magnetic field range		031 T	
positioner body	() 3	de option: beryllium copper)	temperature range (/RT, /HV, /U	,	0100°C	
actuator	PZT ceramics		temperature range (/LT, /LT/HV, /LT/UHV)		10 mK 373 K	
connecting wires	insulated twisted pair, copper		max. bake out temperature (/UH	V,/LT/UHV)	150 °C	
			minimum pressure (/RT, /LT)		1E-4 mbar	
Load (@ ambient conditions)	mounting orientation: axis vertical		minimum pressure (/HV, /LT/HV)		1E-8 mbar	
maximum torque on the axis	10 Ncm		minimum pressure (/UHV, /LT/UHV)		5E-11 mbar	
maximum load	0.5 N (50 g)		Commenters and Foodshoreshop (DT /LTV)		-11 /10/ /110//	
Manustina			Connectors and Feedthroughs	/RT, /LT Ver		all /HV, /UHV Versions
Mounting	Otherwich halos find 7 and action 5 Mag		connector type 2-pole pin p ø 0.5 mm, d 30 cm cable electrical feedthrough solution VFT/LT		-	2-pole pin plug (PEEK),
from the top from the bottom	2 through holes dia 1.7 mm, cntrbr. f. M1.6					ø 0.5 mm, d = 2 mm, 30 cm cable with connecte
	2 threads M2 x 2.3 mm 4 threads M1.6 x 2 mm				with connector	
load on top	4 threads M1.6	x 2 mm	electrical reedthrough solution	VFI/LI		VFT/HV, VFT/UHV
Article Numbers						
/RT Version	1002601					
/HV Version	1002602					
/UHV Version	1002603					
/LT Version	1002604					
/LT/HV Version	1001588					
/LT/UHV Version	1002605					



