

ANPz102/RES

Technical Specifications

itioner type linear e and Dimensions tprint; height 24x24	al piezo drive ; 27mm
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tprint; height 24x24	; 27mm
	; 27mm
.:	
x installation space 24x24	; 32mm
ght	
Materials	
itioner body titaniu berylli	um (upgrade option: copper um)
uator PZT ce	ramics
necting wires insula	ted twisted pair, copper
tions	
rironmental options /RT	
d (@ ambient conditions)	
ximum load 2 N	
ximum dynamic force along the axis 5 N	
Coarse Positioning Mode	
ut voltage range 0 - 60	V
vel range (step mode) 5 mm	
ximum drive velocity @ 300 K approx	x. 3 mm/s
ical minimum step size @ 300 K 50 nm	
ical minimum step size @ 4 K 10 nm	

Fine Positioning Mode		
fine positioning resolution	sub-nm	
fine linear positioning range @ 300 K	3.5 µm	
fine linear positioning range @ 4 K	0.5 μm	
input DC voltage range @ 300 K	0 - 100 V	
input DC voltage range @ 4 K	0 - 150 V	
Accuracy of Movement		
repeatability of step sizes	typically 5 % over full range	
typ. forward / backward step asymmetry	typically 5 - 10 % depending on load	
Position Encoder		
readout mechanism	resistive sensor	
encoded travel range		
sensor power (when measuring)	0.01 - 1 mW	
sensor resolution	approx. 200 nm	
repeatability	12 μm (unidirectional)	
linearity (over full travel)	<1%	
Working Conditions		
mounting orientation	axis vertical	
magnetic field range	0 - 31 T	
minimum pressure (/RT)	ambient	
temperature range (/RT)	273K 373K	
Connectors and Feedthroughs		
cable	30 cm cable with connector	
connector type	2-pole pin plug, ø 0.5 mm, d = 2 mm	
encoder connector	additional 3-pole plug	
Versions		
/RT version	1009460	

Technical Drawings







