ANGt101/NUM(+)

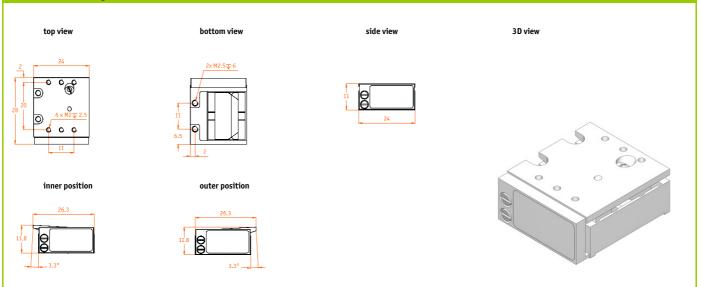
closed loop goniometer with optoelectronic encoder for Θ -positioning

Technical Specifications

Technology		
travel mechanism	inertial piezo drive	
Size and Dimensions		
footprint; height	24 x 28; 11 mm	
maximum size	28.6 x 28; 11.8 mm	
distance center of rotation to bottom	51 mm (above center)	
weight	25.5 g	
Coarse Positioning Mode	@ 300 K	
input voltage range	060V	
typical actuator capacitance	1.11µF	
travel range (step mode)	6.6°	
typical minimum step size	0.1 m°	
maximum drive velocity	≈1°/s	
Fine Positioning Mode		
fine positiong range	no fine positioning capability	
Materials (non-magnetic)		
positioner body	titanium (upgrade option: copper beryllium)	
actuator	PZT ceramics	
connecting wires	insulated twisted pair, copper	
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	1003279	
/HV version	#	
/UHV version	#	

ANC350 piezo positioning control	ler	ANC350/NUM	
Working Conditions			
mounting orientation		axis horizontal	
magnetic field range		07T	
temperature range (/RT, /HV, /UH	IV)	0100 °C	
max. bake out temperature (/UHV	,	150 °C	
minimum pressure (/RT)	,	1E-4 mbar	
minimum pressure (/HV)		1E-8 mbar	
minimum pressure (/UHV)		5E-11 mbar	
Position Encoder			
readout mechanism		optoelectronic:	/NUM & /NUM+/(U)HV
sensor power (when measuring)		/NUM: 300 mW & /NUM+/(U)HV: 50 mW	
encoded travel range		full travel	
wavelength of illumination		870 nm	
sensor resolution		10 µ°	
repeatability		400 µ°	
linearity (over full travel)		< 0.01 %	
absolute accuracy		< 0.01 % of trave	el range
	/RT Versions		all /HV, /UHV Versions
Connectors and Feedthroughs			15-pin D-Sub connector
Connectors and Feedthroughs connector type	14-pole conne	ector	15-pin D-Sub connector

Technical Drawings



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