

# ANSxyz100/LT/UHV xyz-Scanner made from Titanium

1001310

## Technical Specifications

<b>Size and Dimensions</b>	
footprint; height	24 mm x 24 mm; 10 mm
maximum installation space	24 mm x 24 mm; 10 mm
weight	19 g
height	10 mm
<b>Materials</b>	
positioner body	titanium
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
<b>Coarse Positioning Mode</b>	
typical actuator capacitance @ 300 K [ $\mu$ F]	5.55
<b>Fine Positioning Mode</b>	
fine linear positioning range @ 300 K	50 x 50 x 24 $\mu$ m
fine linear positioning range @ 4 K	30 x 30 x 15 $\mu$ m
fine positioning resolution	sub-nm
typical actuator capacitance fine (z) @ 4 K	0.2 $\mu$ F
typical actuator capacitance fine (z) @ 300 K	1.4 $\mu$ F
typical actuator capacitance fine @ 300 K	5.55 $\mu$ F
typical actuator capacitance fine @ 4 K	0.75 $\mu$ F
input DC voltage range @ 300 K	0 - 60 V
input DC voltage range @ 4 K	0 - 150 V
*	scan range depends on environment
<b>Load (@ ambient conditions)</b>	
maximum load	100 g
<b>General Specifications</b>	
environment	/LT/UHV

