

ANSxyz100/LT/UHV xyz-Scanner made from Titanium

1001310

Technical Specifications

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

