

# ANSxyz50/LT xyz-Scanner made from Titanium

1007600

## Technical Specifications

<b>Size and Dimensions</b>	
footprint; height	15 mm x 15 mm; 13 mm
maximum installation space	15 mm x 15 mm; 13 mm
weight	11.5 g
cable	30 cm cable with connector
<b>Materials</b>	
positioner body	titanium
actuator	PZT ceramics
connecting wires	insulated twisted pair, copper
<b>Fine Positioning Mode</b>	
fine linear positioning range @ 300 K	30 x 30 x 4.3 $\mu\text{m}$
fine linear positioning range @ 4 K	15 x 15 x 2 $\mu\text{m}$
fine positioning resolution	sub-nm
typical actuator capacitance fine (z) @ 4 K	0.35 $\mu\text{F}$
typical actuator capacitance fine (z) @ 300 K	2.5 $\mu\text{F}$
typical actuator capacitance fine @ 300 K	1.4 $\mu\text{F}$
typical actuator capacitance fine @ 4 K	0.2 $\mu\text{F}$
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	50 g
<b>General Specifications</b>	
environment	/LT

