## ANSx150

open loop x-scanner with large cryogenic scan range

## **Technical Specifications**

Technology			
travel mechanism	piezo driven lever arm mechanism		
Size and Dimensions			
footprint; height	24 x 24; 9 mm		
weight	18 g		
Fine Positioning Mode	@ 300 K	@ 4 K	
fine positiong range	80 µm	125 μm	
input voltage range	0 60 V	+/- 120V	
typical actuator capacitance	11.1 μF	2.6 μF	
fine positioning resolution	sub-nm		
Materials (non-magnetic)			
positioner body	titanium (upgrade option: beryllium copper)		
actuator	PZT ceramics		
connecting wires	insulated twisted pair, copper		
-			
Load (@ ambient conditions)	mounting orier	tation: axis horizontal	
maximum torque on the axis	10 Ncm		
maximum load	1 N (100g)		
Mounting			
from the top	2 through holes M2 x 5 mm		
from the bottom	2 threads M2.5 x 5 mm		
load on top	6 threads M2 x 2 mm		
Article Numbers			
/RT Version	1006868		
/HV Version	1006869		
/UHV Version	1006870		
(1 T 1 1	1006871		
/LI Version		1006872	
/LT Version /LT/HV Version	1006872		

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	typically 5 - 10	%	
nounting orientation		scanner moving horizontally	
	031T		
V)	0100 °C		
'LT/UHV)	10 mK 373 K		
/LT/UHV)	150 °C		
	1E-4 mbar 1E-8 mbar		
V)	5E-11 mbar		
/RT, /LT Versions		all /HV, /UHV Versions	
2-pole pin p	lug,	2-pole pin plug (PEEK),	
ø 0.5 mm, d	= 2 mm,	ø 0.5 mm, d = 2 mm,	
30 cm cable	with connector	30 cm cable with connecto	
VFT/LT		VFT/HV, VFT/UHV	
7		, , , , -	
	V) LT/UHV) /LT/UHV) /) /RT, /LT Ver 2-pole pin p Ø 0.5 mm, d 30 cm cable VFT/LT	scanner moving 0 31 T V) 0100 °C LT/UHV) 10 mK 373 K /LT/UHV) 150 °C 1E-4 mbar 1E-8 mbar /) 5E-11 mbar /RT, /LT Versions 2-pole pin plug, Ø 0.5 mm, d = 2 mm, 30 cm cable with connector VFT/LT	

## **Technical Drawings**





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