

ECGt5050

goniometer for RT providing Θ -positioning

Technology	
travel mechanism	inertial piezo drive
Size and Dimensions	
footprint; height	55.4 x 50; 17 mm
maximum size	61.1 x 50; 19.4 mm
distance center of rotation to bottom	77 mm
Coarse Positioning Mode	
travel range (step mode)	10 °
typical minimum step size	0.1 m° @ 300 K
maximum speed (@ 300 K, no load)	approx. 1 °/s
Fine Positioning Mode	
scan range	no fine positioning capability
Materials (non-magnetic)	
positioner body	Aluminum / Stainless steel
actuator	PZT ceramics
connecting wires	insulated twisted pair, Cu
weight (Aluminum/Stainless steel)	138 g / 251 g
Load	
maximum vertical load for horizontal operation	10 N
Mounting	
frontside mounting	4 through holes M2 x 2.5 mm
backside mounting	4 threads M2,5 x 2.5 mm
load mounting	12 threads M2 x 2.3 mm
vertical mounting	L-bracket
Article Numbers	
/RT Version Aluminum	1006214
/RT Version Stainless Steel	1006216
/HV Version Stainless Steel	1006218
/UHV Version Stainless Steel	1006220

Compatibility with Electronics	
ECC100 piezo step controller	all versions
ANC35 piezo motor controller	all versions
ANC300 piezo step controller	all versions
ANC350 piezo positioning controller	all versions

Working Conditions	
mounting orientation	arbitrary
magnetic field range	---
temperature range (/RT, /HV, /UHV)	0 .. 100 °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

Connectors and Feedthroughs	/RT	all /HV, /UHV Versions
connector type	14-pole connector	15-pin Sub-D
electrical feedthrough solution	50 cm cable with connector	50 cm cable with connector VFT/HV, VFT/UHV

