

ANGt101/NUM

goniometer with optoelectronic encoder for closed loop operation providing Θ -positioning

Technology	
travel mechanism	inertial piezo drive

Size and Dimensions	
footprint; height	24 x 28; 11.5 mm
maximum size (outer position)	26.3 x 28; 12.3 mm

Travel and Accuracy of Positioning	
travel	6.6°
encoder type	optoelectronic encoder (non-contact)
sensor resolution	10 μ °
repeatability	400 μ °
linearity (over full travel)	0.01 %
absolute accuracy	approx. 1 m°
maximum speed (@ 300 K, no load)	approx. 1 °/s

Working Conditions	
mounting orientation	axis perpendicular to gravity
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

Load	
maximum vertical load	100 g
maximum static forces along the axis	3 N
maximum dynamic force along the axis	2 N
maximum torque on the axis	10 Ncm

Electrical Specifications	
input voltage range	0 .. +100 V
typical actuator capacitance	1050 nF

Connectors and Feedthroughs	/RT Version	/HV, /UHV Version
connector type	14-pole connector	15-pin Sub-D
electrical feedthrough solution	---	COC230/HV, COC230/UHV

Materials	
positioner body	Titanium (other materials on request)
actuator	PZT ceramics
connecting wires	insulated Cu wires
weight	25.5 g

Mounting	
frontside mounting	two through holes for M2
backside mounting	two threads M2.5 x 4 mm
load mounting	six threads M2 x 3 mm

Compatibility with Electronics	
ANC350 piezo controller	all versions

Article Numbers	
/RT Version	1003279
/HV Version	1003280
/UHV Version	1003281

Drawings

