

# ANR101/NUM

ANR101 with optoelectronic encoder for closed loop operation

Technology	
travel mechanism	inertial piezo drive

Size and Dimensions	
footprint; height	24 x 24 (Ø 30); 18 mm
center hole	Ø 2 mm

Travel and Accuracy of Positioning	
travel	360° endless, both directions
encoder type	optoelectronic encoder (non-contact)
sensor resolution	0.1 m°
repeatability	1 m°
absolute accuracy	2 m°
maximum speed (@ 300 K, no load)	approx. 30°/s

Working Conditions	
mounting orientation	axis vertical
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 torque around axis	1 Ncm
maximum dynamic torque around axis	0.8 Ncm
maximum torque perpendicular to axis	20 Ncm

Electrical Specifications	
input voltage range	0 .. +120 V
typical actuator capacitance	1200 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	37 g

Mounting	
frontside mounting	with baseplate: two through holes Ø 2.4 mm
backside mounting	without baseplate: 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	1002550
/HV Version	1002551
/UHV Version	1002683

**Drawings**

