ECGp5050

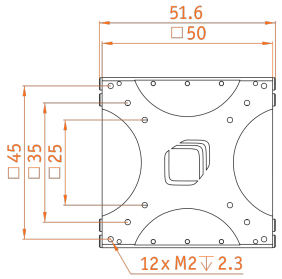
Technical Specifications

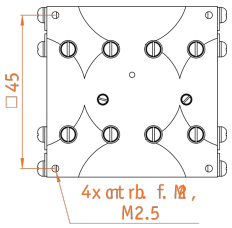
Technology	
travel mechanism	inertial piezo drive
positioner type	goniometer
Size and Dimensions	
footprint; height	45 x 50 ; 17 mm
max installation space	45 x 65 ; 19.4 mm
distance center of rotation to bottom	94 mm
weight (aluminium version)	137 g
weight (stainless steel version)	247 g
Materials	
positioner body	Aluminum
actuator	PZT ceramics
connecting wires	copper, jacket: RT: silicon, HV/UHV: fiberglass
bearings	stainless steel
Load (@ ambient conditions)	
maximum load	10 N
Coarse Positioning Mode	
input voltage range	0 - 60 V
travel range (step mode)	10 °
maximum drive velocity @ 300 K	3 °/s
typical minimum step size @ 300 K	0.1 m°

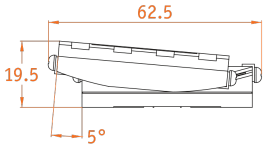
Fine Positioning Mode	
fine positioning resolution	µ°
fine angular positioning range @ 300 K	m°
input DC voltage range @ 300 K	0 - 100 V
Accuracy of Movement	
repeatability of step sizes	typically 5 % over full range
typ. forward / backward step asymmetry	0.1
Working Conditions	
mounting orientation	arbitrary
Connectors and Feedthroughs	
cable	50 cm cable with connector
connector type	14-pole connector
High Load Option (/HL)	
/HL/RT - maximum dynamic force	5 N
Options	
material options	/StSt, /Al
high load option	/HL
environmental options	/RT, /HV, /UHV
Versions	
/StSt/UHV Version	1006228
/StSt/HV Version	1006226
/Al/RT Version	1006222
/Al/HL/RT Version	1008842

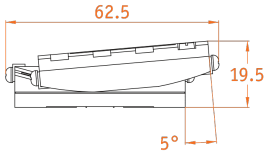
AMC100
Piezo Positioning Controller

Technical Drawings









ECGp5050/NUM(+)

Technical Specifications

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fine angular positioning range @ 300 K	m°
input DC voltage range @ 300 K	0 - 100 V
Accuracy of Movement	
repeatability of step sizes	typically 5 % over full range
typ. forward / backward step asymmetry	0.1
Position Encoder	
readout mechanism	optoelectronic sensor
encoded travel range	entire travel
sensor power (when measuring)	300 mW
wavelength of illumination	870 nm
sensor resolution	1 µ°
repeatability	50 µ° (bidirectional)
absolute accuracy	< 0.01% of travel range
Working Conditions	
mounting orientation	arbitrary
Connectors and Feedthroughs	
cable	50 cm cable with connector
connector type	14-pole connector
High Load Option (/HL)	
/HL/RT - maximum dynamic force	5 N
Options	
material options	/StSt, /Al
encoder options	/NUM, /NUM+
high load option	/HL
environmental options	/RT, /HV, /UHV
Versions	
/StSt+/UHV Version	1011455
/StSt+/HV Version	1011454
/StSt/UHV Version	1006229
/StSt/HV Version	1006227
/Al/RT Version	1006223
/Al/HL/RT Version	1008843

AMC100
Piezo Positioning Controller

Technical Drawings