

ECSxy5050/Al/RT

Art.Nr.: 1011872

Technical Specifications

Technology	
travel mechanism	inertial piezo drive
positioner type	linear
Size and Dimensions	
footprint; height	50 x 50 ; 16.4 mm
max installation space	75 x 75 ; 16.4 mm
weight (aluminium version)	109 g
Materials	
positioner body	Aluminum
positioner body (/HV, /UHV)	stainless steel
actuator	PZT ceramics
connecting wires	copper, jacket: RT: Fluoropolymer
bearings	stainless steel
Load (@ ambient conditions)	
maximum load	150 N
maximum dynamic force along the axis	2 N
Coarse Positioning Mode	
input voltage range	0 - 100, 0 - 45 V
travel range (step mode)	25 mm
maximum drive velocity @ 300 K	4.5 mm/s
typical minimum step size @ 300 K	50 nm

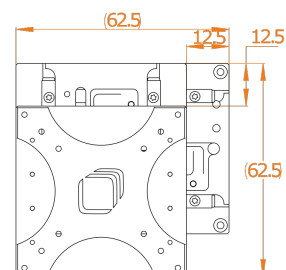
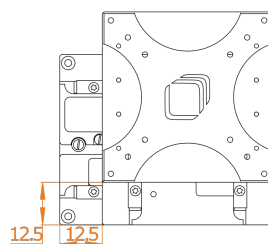
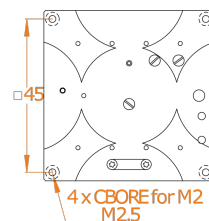
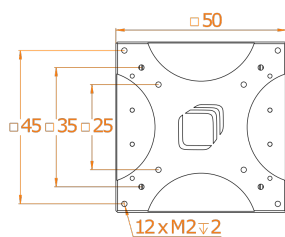
Fine Positioning Mode	
fine positioning resolution	sub-nm
fine linear positioning range @ 300 K	1.6 μ m
input DC voltage range @ 300 K	0 - 120 V
Accuracy of Movement	
typ. forward / backward step asymmetry	10 %
Working Conditions	
mounting orientation	arbitrary
Connectors and Feedthroughs	
cable	50 cm cable with connector
connector type	14-pole connector
connector type (/HV, /UHV)	15-pin D-Sub connector

AMC100

Piezo Positioning
Controller



Technical Drawings



ECSxy5050/Al/NUM/RT

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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 nm
repeatability	50 nm (bidirectional)
absolute accuracy	< 0.01% of travel range
Working Conditions	
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Connectors and Feedthroughs	
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connector type	14-pole connector
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AMC100
Piezo Positioning
Controller



Technical Drawings

