

# ECSxy5050/AI/NUM/RT

1011873

## Technical Specifications

<b>Size and Dimensions</b>	
footprint; height	50 mm x 50 mm; 16.4 mm
maximum installation space	75 mm x 75 mm; 16.4 mm
weight	109 g
height	16.4 mm
<b>Materials</b>	
positioner body	aluminum
actuator	PZT ceramics
connecting wires	copper, jacket: RT: Fluoropolymer
<b>Coarse Positioning Mode</b>	
travel range (step mode)	25 mm
maximum drive velocity @ 300 K	4.5 mm/s
input voltage range	0 - 45 V
<b>Fine Positioning Mode</b>	
fine linear positioning range @ 300 K	1.6 $\mu$ m
fine positioning resolution	sub-nm
input DC voltage range	0 - 45 V
<b>Position Encoder</b>	
readout mechanism	optoelectronic sensor
encoded travel range	entire travel
sensor resolution	1 nm
sensor power (when measuring)	300 mW
repeatability	50 nm (bidirectional)
<b>Load (@ ambient conditions)</b>	
maximum load	2 kg
maximum dynamic force along the axis	2 N
<b>General Specifications</b>	
environment	/RT

