

# ECSx3030/AI/NUM/RT

1005659

## Technical Specifications

Size and Dimensions	
footprint; height	30 mm x 30 mm; 9.5 mm
maximum installation space	30 mm x 51.6 mm; 9.5 mm
weight (aluminium version)	29 g
weight (stainless steel version)	51 g
Materials	
positioner body	aluminum
positioner body (/HV, /UHV)	stainless steel
actuator	PZT ceramics
connecting wires	copper, jacket: RT: silicone, HV/UHV: fiberglass
Coarse Positioning Mode	
travel range (step mode)	20 mm
maximum drive velocity @ 300 K	4.5 mm/s
input voltage range	0 - 60 V
Fine Positioning Mode	
fine linear positioning range @ 300 K	1.6 $\mu$ m
fine positioning resolution	sub-nm
input DC voltage range @ 300 K	0 - 60 V
Position Encoder	
readout mechanism	optoelectronic sensor
encoded travel range	entire travel
sensor resolution	1 nm
sensor power (when measuring)	300 mW
repeatability	50 nm (bidirectional)
Load (@ ambient conditions)	
maximum load	9 kg
maximum dynamic force along the axis	1 N

