ECSx3030

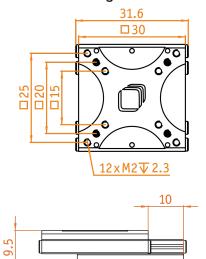


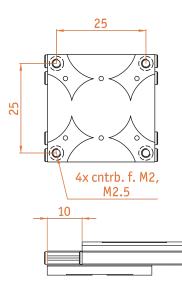
Technical Specifications

Technology	
travel mechanism	inertial piezo drive
positioner type	linear
Size and Dimensions	
footprint; height	30x30; 9.5mm
max installation space	30x51.6; 9.5mm
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: silicon, HV/UHV: fiberglass
bearings	stainless steel
Options	
environmental options	/RT
Load (@ ambient conditions)	
maximum load	90 N
maximum dynamic force along the axis	1 N
Coarse Positioning Mode	
input voltage range	0 - 60 V
travel range (step mode)	20 mm
maximum drive velocity @ 300 K	4.5 mm/s
typical minimum step size @ 300 K	50 nm

fine positioning resolutionsub-nmfine linear positioning range @ 300 K1.6 μminput DC voltage range @ 300 K0 - 60 VAccuracy of MovementUtyp. forward / backward step asymmetry10 %Working Conditionsarbitrarymounting orientationarbitraryminimum pressure (/RT)273K 373KConnectors and Feedthroughs50 cm cable with connectorconnector type14-pole connectorconnector type (/HV, /UHV)15-pin D-Sub connectorVersions//RT version/RT version1005651	Fine Positioning Mode		
input DC voltage range @ 300 K 0 - 60 V Accuracy of Movement typ. forward / backward step asymmetry 10 % Working Conditions mounting orientation arbitrary minimum pressure (/RT) ambient temperature range (/RT) 273K 373K Connectors and Feedthroughs cable 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions	fine positioning resolution	sub-nm	
Accuracy of Movement typ. forward / backward step asymmetry 10 % Working Conditions arbitrary mounting orientation arbitrary minimum pressure (/RT) ambient temperature range (/RT) 273K 373K Connectors and Feedthroughs 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions -	fine linear positioning range @ 300 K	1.6 μm	
typ. forward / backward step asymmetry 10 % Working Conditions arbitrary mounting orientation arbitrary ambient temperature range (/RT) 273K 373K Connectors and Feedthroughs cable 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions	input DC voltage range @ 300 K	0 - 60 V	
Working Conditions mounting orientation arbitrary minimum pressure (/RT) ambient temperature range (/RT) 273K 373K Connectors and Feedthroughs cable cable 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions -	Accuracy of Movement		
mounting orientation arbitrary minimum pressure (/RT) ambient temperature range (/RT) 273K 373K Connectors and Feedthroughs cable cable 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions 50 cm cable with connector	typ. forward / backward step asymmetry	10 %	
minimum pressure (/RT) ambient temperature range (/RT) 273K 373K Connectors and Feedthroughs cable cable 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions 4	Working Conditions		
temperature range (/RT) 273K 373K Connectors and Feedthroughs cable 50 cm cable with connector connector type (/HV, /UHV) 14-pole connector versions	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 Versions 4	minimum pressure (/RT)	ambient	
cable 50 cm cable with connector connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions 4	temperature range (/RT)	273K 373K	
connector type 14-pole connector connector type (/HV, /UHV) 15-pin D-Sub connector Versions 4-pole connector	Connectors and Feedthroughs		
connector type (/HV, /UHV) 15-pin D-Sub connector Versions	cable	50 cm cable with connector	
Versions	connector type	14-pole connector	
	connector type (/HV, /UHV)	15-pin D-Sub connector	
/RT version 1005651	Versions		
,	/RT version	1005651	

Technical Drawings







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