

Product-Specification

Product	Z-Stage		
Product-Code	CPS-D00500 (CPO-L00500 open loop)	Unit	Tolerance
Position-Sensor	SGS, Full-Bridge		
Range, Closed Loop	500	µm	±10%
Range, Open Loop (0..150 V)	370	µm	±10%
Range, Open Loop (-45..180 V)	600	µm	±10%
Resolution, open loop	3	nm	ca., RMS
Resolution, closed loop	5	nm	ca., RMS
Linearity, closed loop	0.2	%	typ.
Repeatability	50	nm	typ.
Push/Pull, maximum	40/20	N	
Lateral Force, maximum	10	N	
Stiffness	0.15	N/µm	±20%
Resonance, unloaded	260	Hz	ca.
Resonance, with 100 g load	180	Hz	ca.
Electrical Capacitance @ 1V eff, 1kHz	4.4	µF	±10%
Body-Material	Aluminum/Stainless-Steel		
Connector	DSub15 (open loop: Lemo)		
Operating Temperature	-20..80	°C	

Options:

- ↗ Vacuum-Compatibility
- ↗ Suitable Driver, open-loop, EBO-050100
- ↗ Suitable Controller, closed-loop, EBD-060100

