

Product-Specification

Product	SPS Microscopy Z-Stages, Inserts for inverse Microscopes				
Product-Number	SPS-D10120	SPS-D10250	SPS-D10500	Unit	Tolerance
Displacement Sensor	strain gages, full-bridge				
Displacement, closed loop	120	250	500	µm	±10%
Displacement (-30..160 V)	150	320	650	µm	min.
Resolution, open loop	0.4	0.8	2	nm	typ.
Resolution, closed loop	0.6	1.3	3	nm	typ.
Linearity, closed loop	0.1			%	typ.
Repeatability, closed loop	6	13	25	nm	typ.
Push/Pull	50/20	40/15	40/15	N	max.
Resonance, unloaded	380	250	150	Hz	±20%
Resonance, 125g load	270	180	110	Hz	±20%
Resonance, 250g load	220	140	90	Hz	±20%
El. Capacitance @ 1V eff. 1kHz	4.4	8.8	13.2	µF	±20%
Electrical Connection	D-Sub 15				
Dimensions, L x W x H	220 x 135 x 27.3			mm	
Aperture, L x W	128.5 x 86.5			mm	
Body-Material	aluminum, black anodized				
Operating Temperature	-20..80				

Options:

- Suitable driver, open-loop, EBO 050100
- Suitable controller, closed-loop, EBD
- Sample- and Petri-Dish-Holder

