

Product-Specification

Product	SPS Microscopy Z-Stages				
Product-Number	SPS-D00120	SPS-D00450	SPS-D00650	Unit	Tolerance
Displacement Sensor	strain gages, full-bridge				
Displacement, closed loop	120	450	650	µm	±10%
Displacement (-45..180 V)	180	600	820	µm	±10%
Resolution, open loop	0.4	1	2	nm	typ.
Resolution, closed loop	1	3	4	nm	typ.
Linearity, closed loop	0.1			%	typ.
Repeatability, closed loop	10	20	30	nm	typ.
Push/Pull	50/20	50/20	40/15	N	max.
Resonance, unloaded	380	250	130	Hz	±20%
Resonance, 125g load	270	180	95	Hz	±20%
Resonance, 250g load	220	145	75	Hz	±20%
El. Capacitance @ 1V eff. 1kHz	4.4	13.2	13.2	µF	±20%
Electrical Connection	D-Sub 15				
Dimensions, L x W x H	237 x 156 x 15 mm			mm	
Aperture, L x W	142 x 110			mm	
Body-Material	aluminum, black anodized				
Operating Temperature	-20..80				

Options:

- Suitable driver, open-loop, EBO-050100
- Suitable controller, closed-loop, EBD-120210
- Insert, Sample- and Petri-Dish-Holder

