

## Product-Specification

Produkt	L3_-D10300, Piezo XYZ Stages, XY 300 µm, Z 20/50/100/300 µm					
Product-Number. L3_D10300-..	XY300Z20	XY300Z50	XY300Z100	XY300Z300	Unit	Tolerance
Position-Sensors	capacitive sensors (L3C). strain sensors (L3S)					
Ranges, closed loop	300/300/20	300/300/50	300/300/100	300/300/300	µm	
Ranges, open loop (-45..+180V)	480/480/24	480/480/60	480/480/120	480/480/360	µm	±20%
Resolution, L3C	1.5/0.1	1.5/.3	1.5/0.5	1.5/1.5	nm	typ. RMS
Resolution, L3S	1.5/0.5	1.5/1	1.5/1	1.5/1.5		
Linearity, L3C, XY/Z	0.02/0.07				%	typ.
Linearity, L3S	0.2					
Repeatability, L3C	15/1	15/3	15/5	15/15	nm	±. typ.
Repeatability, L3S	30/2	30/5	30/10	30/30		
Resonance XY, unloaded	185				Hz	±20%
Resonance, Z, unloaded	680	600	580	450	Hz	±20%
El. Capacitance @ 1Veff 1kHz	XY13.2/Z4.4		XY13.2/Z8.8	XY13.2/Z13.2	µF	±10%
Dimensions (LxWxH)	150x150x30				mm	
Aperture, Dimensions (LxW)	66x66				mm	
Body/Platform-Material	aluminum, black anodized					
Operating Temperature	-20..+80				°C	
Connector	DSub25					
Cable length	1.5				m	

**Options:**

- Vacuum compatibility and/or non-magnetic
- Suitable controller, LPC, EBC-120330
- Suitable controller, LPS, EBD-060230

