

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 | 0.02 | | | | % | 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

