Compact PiezoMove Linear Actuator

COST-EFFICIENT, WITH 300 µM TRAVEL RANGE

Standard-class piezo actuator
Frictionless flexure joints with integrated lever motion amplifiers. Open-loop, without position sensor

PICMA® high-performance piezo drive
Piezoceramic actuators with all-ceramic insulation. Longer lifetime, humidity resistance and operating temperatures to 80°C

Fields of application
Research and industry. Ideal OEM actuators for precision motion control in optics, medical, biotech and microfluidics applications

Related products
P-603 Cost-Efficient PiezoMove Linear Flexure Actuator
P-712 Linear Piezo Scanner
P-713 XY Piezo Scanner

P-604
- Lightweight and compact: 4 g and <13 mm × 20 mm footprint
- Travel range 300 µm
- Optimized design for manufacturing in large quantities
- Customer-specific adaptations can be provided

<table>
<thead>
<tr>
<th>Active axes</th>
<th>P-604.300</th>
<th>Unit</th>
<th>Tolerance</th>
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<tbody>
<tr>
<td>Z</td>
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Motion and positioning
- Open-loop travel, -20 to 120 V
- Open-loop resolution

<table>
<thead>
<tr>
<th>Mechanical properties</th>
<th>P-604.300</th>
<th>Unit</th>
<th>Tolerance</th>
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<tbody>
<tr>
<td>Stiffness in motion direction</td>
<td>0.01</td>
<td>N/µm</td>
<td>±20%</td>
</tr>
<tr>
<td>Unloaded resonant frequency</td>
<td>900</td>
<td>Hz</td>
<td>±20%</td>
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<tr>
<td>Push / pull force capacity in motion direction</td>
<td>2 / 1.5</td>
<td>N</td>
<td>max.</td>
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Drive properties
- PiezoceramicsPICMA® P-883
- Electrical capacitance 0.27 µF ±20%

Miscellaneous
- Operating temperature range -20 to 80°C
- Material Steel
- Dimensions 19.5 mm × 13 mm × 4.1 mm
- Mass 4 g ±10%
- Cable length 0.1 m ±10 mm
- Voltage connection Stranded wire
- Recommended controller / amplifier E-610.00 amplifier; E-831 OEM amplifier module

Ask about custom designs!