

Part number:
SuprMike[®]


- Linear actuator:** DC Servo motor micrometer
- Expansion range:** Up to 15, 20, 30 or 50mm
- Gearheads available:** 34.165:1, 63.75:1, 137.5:1, 240:1
- Maximum motor voltages:** 6V (direct power from USB) or 12V
- Rotary encoder:** 10bit (1024 counts per motor revolution)
- Micrometer screw pitch:** 0.5mm / turn
- Design/measured resolution:** 0.007µm / 0.05µm
- Bi-directional repeatability:** 1µm
- Maximum speed:** 150,000 c.p.s. or 2.5mm/s (with 34.3:1 gearhead motor)
- Maximum load:** 20N
- Available options:** Position feedback, limit switches, nonrotating tip.
- Recommended controller:** DSP-21 
- Dimensions:** 5 x 0.75"


Photo (tip at 50%)

3-D

The actuator is delivered with a 25cm long ribbon cable equipped with an IDC 10pin connector. The pin-out is listed below:

- | | |
|---------------|-----------------------------------|
| Pin 1 | Motor + |
| Pin 2 | +5V to encoder |
| Pin 3 | Encoder Ch. A |
| Pin 4 | Encoder Ch. B |
| Pin 5 | Ground. |
| Pin 6 | Motor - |
| Pin 7 | NC (optionally Index or Absolute) |
| Pin 8 | Positive limit switch (optional) |
| Pin 9 | Negative limit switch (optional) |
| Pin 10 | Ground. |