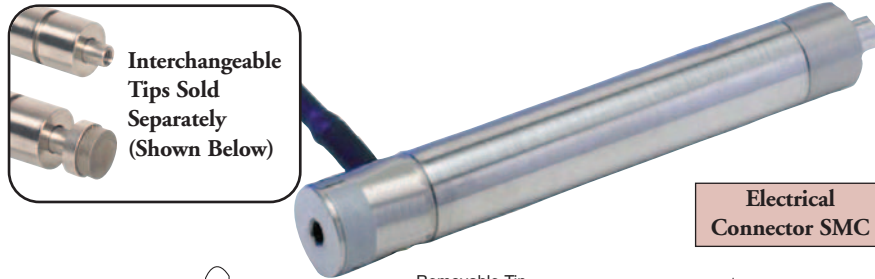
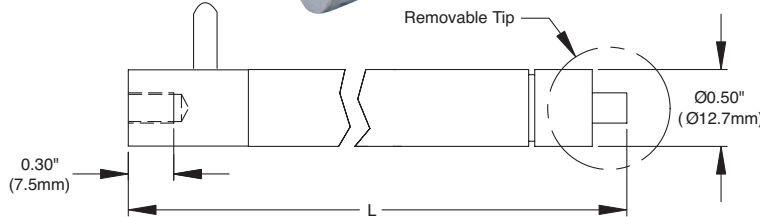


## Motion Control

### Piezoelectric Actuator Without Feedback



The PAS Series Piezoelectric Actuators provide a convenient mounting package with a series of adjustment lengths ranging from 20 to 100µm. The Ø0.5" (Ø12.7mm) mounting barrel has been designed for compatibility with a variety of replaceable tips (see below).



- Permanent Preload
- 0 to 75 VDC
- Modular Drives
- -20°C to 80°C Operation

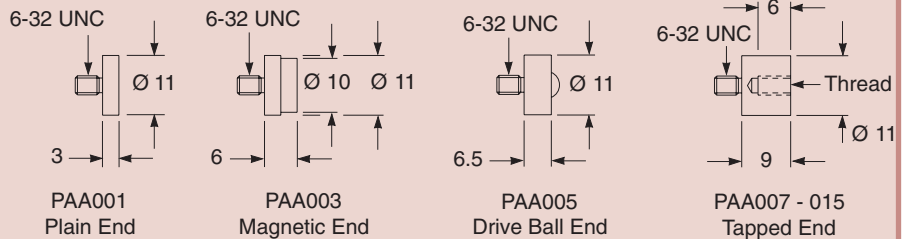
| ACTUATOR TYPE | LENGTH L      |
|---------------|---------------|
| PAS020        | 1.65" (42mm)  |
| PAS030        | 2.01" (51mm)  |
| PAS040        | 2.36" (60mm)  |
| PAS060        | 3.07" (78mm)  |
| PAS080        | 3.78" (96mm)  |
| PAS100        | 4.49" (114mm) |

| ITEM#  | \$        | £        | €        | RMB        | TRAVEL (µm) | RESOLUTION (nm) |
|--------|-----------|----------|----------|------------|-------------|-----------------|
| PAS020 | \$ 375.28 | £ 236.40 | € 349.00 | ¥ 3,583.90 | 20.0        | 20.0            |
| PAS030 | \$ 561.00 | £ 353.40 | € 521.70 | ¥ 5,357.60 | 30.0        | 30.0            |
| PAS040 | \$ 566.18 | £ 356.70 | € 526.50 | ¥ 5,407.00 | 40.0        | 40.0            |
| PAS060 | \$ 763.30 | £ 480.90 | € 709.90 | ¥ 7,289.50 | 60.0        | 60.0            |
| PAS080 | \$ 513.45 | £ 323.50 | € 477.50 | ¥ 4,903.40 | 80.0        | 80.0            |
| PAS100 | \$ 867.00 | £ 546.20 | € 806.30 | ¥ 8,279.90 | 100.0       | 100.0           |

### End Tips for PAS/PAZ Series

The PAA-series actuator tips have been provided to enhance the mechanical interfacing of the PAS-series and the PAZ-series of piezoelectric actuators. These tips are precision machined and feature a hardened steel insert for long life.

Dimensions in mm



| ITEM#  | \$       | £       | €       | RMB      | DESCRIPTION                             |
|--------|----------|---------|---------|----------|---|
| PAA001 | \$ 22.10 | £ 13.90 | € 20.60 | ¥ 211.10 | Piezo Actuator Tip, Flat End            |
| PAA003 | \$ 28.90 | £ 18.20 | € 26.90 | ¥ 276.00 | Piezo Actuator Tip, Magnetic Flat End   |
| PAA005 | \$ 38.67 | £ 24.40 | € 36.00 | ¥ 369.30 | Piezo Actuator Tip, Ball End            |
| PAA007 | \$ 25.50 | £ 16.10 | € 23.70 | ¥ 243.50 | Piezo Actuator Tip, Threaded M4         |
| PAA009 | \$ 38.67 | £ 24.40 | € 36.00 | ¥ 369.30 | Piezo Actuator Tip, Threaded M6         |
| PAA011 | \$ 25.50 | £ 16.10 | € 23.70 | ¥ 243.50 | Piezo Actuator Tip, Threaded M8         |
| PAA013 | \$ 28.90 | £ 18.20 | € 26.90 | ¥ 276.00 | Piezo Actuator Tip, Threaded 8-32 UNC   |
| PAA015 | \$ 28.90 | £ 18.20 | € 26.90 | ¥ 276.00 | Piezo Actuator Tip, Threaded 1/4-20 UNC |

## TOOLS OF THE TRADE NEW PIEZOELECTRIC DRIVER WITH SENSOR INPUTS



The apt™ piezoelectric controller provides a full PID servo loop that eliminates long-term drift due to "piezo creep." This controller incorporates the latest high-speed digital signal processing, low-noise analog electronics, and ActiveX® software technology to provide an advanced instrument with a user friendly interface.

**SEE OUR ENTIRE LINE OF  
PIEZO DRIVERS ON PAGE 370**

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