

## Piezoelectric Actuators without Feedback

**NEW**  
products

### Specifications

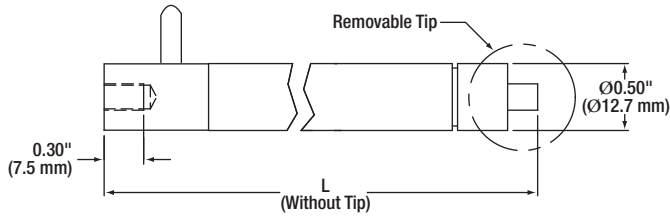
- Permanent Preload
- **Piezo Voltage:**  
0 to 75 VDC
- 3 m Cable with Female SMC Connector
- **Operating Temperature:**  
-20 to 80° C



PAA009 Actuator  
with Included PAA001 Tip

The PAS Series of Piezoelectric Actuators provide a convenient mounting package with adjustment ranges of 20 mm, 40 mm, or 100 mm. Each actuator is shipped with a PAA001 flat tip, which adds 3 mm to the overall length of the actuator when attached. The tip can be removed and replaced with a PAA005 ball tip (see below). The TPZ001 or MDT694A are both ideal controllers to drive the PAS-series of actuators (see pages 636 – 637 and 640).

Please refer to our website for complete models and drawings.



ITEM #	\$	£	€	RMB	L	TRAVEL	RESOLUTION	CAPACITANCE
PAS005	\$ 439.06	£ 316.12	€ 381.98	¥ 3,499.31	2.24" (57 mm)	20.0 μm	20.0 nm	3.6 μF
PAS009	\$ 679.71	£ 489.39	€ 591.35	¥ 5,417.29	3.66" (93 mm)	40.0 μm	40.0 nm	7.2 μF
PAS015	\$ 1,463.48	£ 1,053.71	€ 1,273.23	¥ 11,663.94	7.91" (201 mm)	100.0 μm	100.0 nm	18 μF



### End Tips for PAS/PAZ Series

The PAA001 is a replacement for the flat tip that is standard on PAS and PAZ series actuators. The PAA005 is a ball tip that can be used as an alternative to the standard flat tip. These tips are precision machined from durable stainless steel.

ITEM #	\$	£	€	RMB	DESCRIPTION	ΔL*
PAA001	\$ 21.00	£ 15.12	€ 18.27	¥ 167.37	Piezo Actuator Tip, Flat End	3 mm
PAA005	\$ 36.80	£ 26.50	€ 32.02	¥ 293.30	Piezo Actuator Tip, Ball End	7 mm

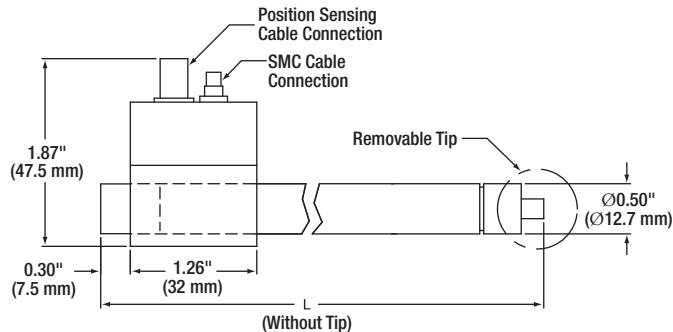
\* Length added to PAS or PAZ Series actuators when using tip.

## Piezo Actuators with Strain Gauge Feedback

**NEW**  
products



PAZ009 Actuator with  
Included PAA001 Tip



The PAZ series of piezoelectric actuators provides a wide selection of travel ranges (20 to 100 μm), the flexibility of replaceable tips, and feedback via a 7-pin LEMO connector that can be used in conjunction with our apt™ series of piezo controllers (see pages 636 – 645). The Ø1/2" (Ø12.7 mm) mounting barrel provides compatibility with standard Ø1/2" (Ø12.7 mm) mounting bores. A PAA001 (shown above) tip comes standard with each actuator. When used the PAA001 tip adds 3 mm to the overall length of the actuator. It can be removed and replaced with a PAA005 ball tip actuator.

ITEM #	TRAVEL	LENGTH L	RESOLUTION	CAPACITANCE
PAZ005	20 μm	2.24" (57 mm)	5.0 nm	3.6 μF
PAZ009	40 μm	3.66" (93 mm)	10.0 nm	7.2 μF
PAZ015	100 μm	7.91" (201 mm)	25.0 nm	18 μF

ITEM #	\$	£	€	RMB	DESCRIPTION
PAZ005	\$ 816.31	£ 587.74	€ 710.19	¥ 6,505.99	Piezoelectric Actuator with Feedback, 20 μm Travel
PAZ009	\$ 1,083.05	£ 779.80	€ 942.25	¥ 8,631.91	Piezoelectric Actuator with Feedback, 40 μm Travel
PAZ015	\$ 1,933.85	£ 1,392.37	€ 1,682.45	¥ 15,412.78	Piezoelectric Actuator with Feedback, 100 μm Travel

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Piezo  
Controllers



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