

## Motion Control

### Motorized Actuators – DC Servo

Single Axis Stages

Multi-Axis Stages

Flexure Stage Accessories

Motorized Mirror Mounts

Rotation Stages

Drive Electronics & Auto-Alignment

Actuators & Adjusters

Brief Tutorials

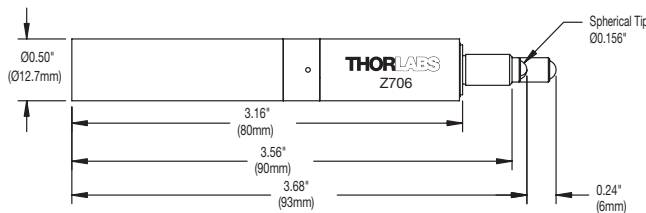


1/4"-80 Threaded Barrel

Our Z7 series motorized micrometers are engineered for use with optical positioning devices. The high-resolution design in a lightweight and compact package makes these actuators ideally suited for demanding optical laboratory automation applications. Additional features include an optical encoder for closed-loop operation as well as built-in limit switches that provide overdrive protection.

The Z706 model has been designed specifically for use in mirror mounts that have 1/4"-80 manual adjusters. Just remove the existing 1/4"-80 drive screw and thread in our Z706 actuator. See page 352 for details of our T-Cube motor driver.

- Motorized Actuator, 12V DC Servo Motor
- Mirror Mount Drop-In Replacement for 1/4"-80 Actuators
- Actuator Travel: 6mm, 12mm, and 25mm
- 0.05µm Minimum Incremental Movement
- Backlash <8µm (Before Software Compensation)
- Compatible With Many Standard Controllers/Drivers
- Limit Switches Prevent Accidental Actuator Damage
- High Precision Rotary Encoder (48 Count Encoder x 256:1 Gear Head = 12,288 Counts per Revolution)



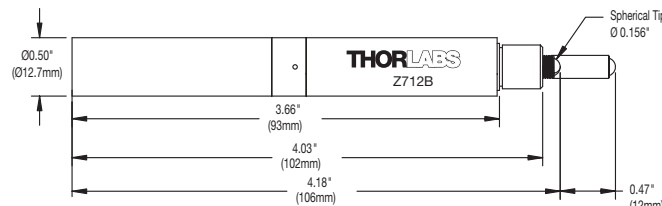
Z706

#### 6mm Travel (1/4"-80 Barrel)

ITEM#	\$	£	€	RMB	DESCRIPTION
Z706	\$467.50	£ 294.50	€ 434.80	¥4,464.60	6mm Motorized Actuator, 1/4"-80
Z606V	\$480.00	£ 302.40	€ 446.40	¥4,584.00	6mm Vacuum Rated Actuator, 1/4"-80



12mm of Travel, 256:1 Gear Head, 12,288 Counts/Rev Encoder



Z712B

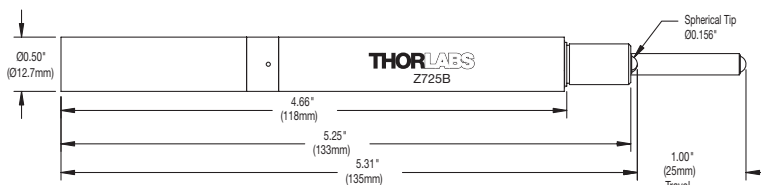
2 Models:

- Ø3/8" Barrel
- 1/4"-80

PIN	DESCRIPTION
1	Ground (Limit and Vcc)
2	Forward Limit
3	Reverse Limit
4	Reversed for Future Use
5	Motor (-)
6	Reversed for Future Use
7	Motor (+)
8	Reserved for Future Use
9	Identification Resistor
10	12-15V Supply
11	Encoder Channel A
12	Reserved for Future Use
13	Encoder Channel B
14	Reserved for Future Use
15	Reserved for Future Use

#### 12mm Travel (2 Designs, 3/8" Diameter Barrel and 1/4"-80)

ITEM#	\$	£	€	RMB	DESCRIPTION
Z712	\$469.50	£295.80	€436.60	¥4,483.70	12mm Motorized Actuator, 3/8" Barrel
Z712B	\$460.00	£289.80	€427.80	¥4,393.00	12mm Vacuum Rated Actuator, 1/4"-80
Z612V	\$495.00	£311.90	€460.40	¥4,727.30	12mm Motorized Actuator, 1/4"-80
Z612BV	\$490.00	£308.70	€455.70	¥4,679.50	12mm Vacuum Rated Actuator, 3/8" Barrel



Z725B

#### 25mm Travel (3/8" Diameter Barrel)

ITEM#	\$	£	€	RMB	DESCRIPTION
Z725B	\$ 490.00	£ 308.70	€ 455.70	¥ 4,679.50	25mm Motorized Actuator, 3/8" Barrel
Z625BV	\$ 500.00	£ 315.00	€ 465.00	¥ 4,775.00	25mm Vacuum Rated Actuator, 3/8" Barrel

### Vacuum Option

Our new vacuum compatible, motorized actuators offer the same great functionality as our standard actuators but with vacuum rated servo-motors, phosphorus bronze internal coupling mechanism, and high vacuum grease (see price boxes).

- Vacuum Rating to 10<sup>-6</sup> Torr
- Ø3/8" or 1/4"-80 Mounting Barrel
- See Web for Details



25mm of Travel, 256:1 Gear Head, 12,288 Counts/Rev Encoder