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50mm Travel, Motorized Linear Actuator, Integrated Controller, Manual Control

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General

Type:
Metric

Manual Control/ LED Indicators:
Yes

Manufacturer:
Zaber Technologies Inc.

Type of Motor:
Stepper (2 Phase)

Physical & Mechanical Properties

Type of Movement:
Linear (X)

Travel (mm):
50.8

Accuracy (µm):
55 (Unidirectional)

Backlash (µm):
<15

Dimensions (mm):
162.5 L x 49.4 W x 20.0 H

Repeatability (µm):
<1

Speed (mm/s):
0.000029 to 30

Thrust (N):
25

Weight (kg):
0.16

Optical Properties

Resolution (µm):
0.047625

Electrical

Maximum Operating Current (mA):
180

Hardware & Interface Connectivity

Type of Drive:
Precision Lead Screw

Power Supply:
24-48 VDC

Computer Interface:
RS-232

Threading & Mounting

Mount:
3/8-32 Nut, 3/8" Shank or M3 Screws

Environmental & Durability Factors

Operating Temperature (°C):
0 to 50

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

- Miniature, Robust Design
- Integrated Motor and Controller
- Controlled Manually or via RS-232 Serial Interface
- Available with Integrated, 250 Counts per Revolution (CPR) Motor Mounted Encoder

Zaber™ High Accuracy Linear Actuators feature 50nm resolution with up to 50mm travel distance. These computer-controlled, self-contained linear actuators include a stepper motor and a built-in controller that can connect directly a computer's RS-232 port while requiring only the included 15V power supply. Encoder versions are available for all travel lengths and include 250 Counts per Revolution (CPR) rotary quadrature encoders integrated into the stepper motor. Zaber™ High Accuracy Linear Actuators also feature an industry standard 3/8" shank that fits most common stages. The actuator shaft does not rotate and will not transmit any torque to the translation stage. When used manually, the actuator can be monitored using a computer if needed.

Note: A 6ft. data cable, RS-232 adapter, and universal power supply are sold separately as accessories

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