

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

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1

+

£1,357⁰³

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SPECIFICATIONS

General

	Type:
Metric	
	Encoder:
Yes	

Yes	Manual Control/ LED Indicators:
Zaber Technologies Inc.	Manufacturer:
Stepper (2 Phase)	Type of Motor:
Rotary Quadrature Encoder	Encoder Type:
Physical & Mechanical Properties	
Linear (X)	Type of Movement:
50.8	Travel (mm):
55 (Unidirectional)	Accuracy (µm):
<15	Backlash (µm):
162.5 L x 49.4 W x 20.0 H	Dimensions (mm):
<1	Repeatability (µm):
0.000029 to 30	Speed (mm/s):
25	Thrust (N):
0.16	Weight (kg):
250 CPR	Encoder Resolution:
Optical Properties	
0.047625	Resolution (µm):
Electrical	
180	Maximum Operating Current (mA):
Hardware & Interface Connectivity	
Precision Lead Screw	Type of Drive:
24-48 VDC	Power Supply:
RS-232	Computer Interface:
Threading & Mounting	
3/8-32 Nut, 3/8" Shank or M3 Screws	Mount:
Environmental & Durability Factors	
0 to 50	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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

