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450mm Travel, Motorized Linear Stage, Integrated Controller, Encoder (Recertified 03-N)

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150mm Travel, Motorized Linear Stage, #15-289



Stock **#22-227-RCD-03N** RECERTIFIED CONTACT US

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1

+

\$4,125⁹⁸

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General	
Universal (Metric & English)	Type:
Yes	Encoder:
Yes	Manual Control/ LED Indicators:
	Manufacturer:

Zaber Technologies Inc.	
Note: Requires a 24-48 VDC power supply and either #15-295 for USB connectivity or #15-297 for RS-232 connectivity. A data cable (#15-296 or #15-299) can be used to daisy chain multiple stages together to control simultaneously.	
2-Phase Stepper	Type of Motor:
Rotary Quadrature Encoder	Encoder Type:
Physical & Mechanical Properties	
Linear (X)	Type of Movement:
Recirculating Ball Linear Guide	Guide System:
65 x 661.2	Stage Size (mm):
450	Travel (mm):
75 (unidirectional)	Accuracy (µm):
<18	Backlash (µm):
43.1	Height (mm):
50	Load Capacity (kg):
<3	Repeatability (µm):
0.0003 to 240	Speed (mm/s):
<75	Thrust (N):
2.3	Weight (kg):
500 CPR	Encoder Resolution:
Optical Properties	
0.49609375	Resolution (µm):
Electrical	
<1450	Maximum Operating Current (mA):
Hardware & Interface Connectivity	
Precision Lead Screw	Type of Drive:
Power Supply Required and Sold Separately. USA: #15-294 Europe: #15-294 Japan: #23-662 Korea: #33-773 China: #15-294	Power Supply:
USB with #15-295 RS-232 with #15-297	Computer Interface:
Environmental & Durability Factors	
0 - 50	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:

Product Details

- High Speed, 75mm, 150mm, 300mm, 450mm, and 600mm Travel Options
- Controlled Manually or via RS-232 Serial Interface
- Available with Integrated, 500 Counts per Revolution (CPR) Motor Mounted Encoder

- No Adapter Required for X-Y-Z Configurations

Zaber™ Long Travel Motorized Stages are computer-controlled stages capable of translation speeds of up to 280mm/s with 0.5µm resolution. Zaber™ Long Travel Motorized Stages can also be controlled using the [Zaber™ Programmable Joystick Controller](#) (sold separately), a computer using an optional RS-232 or USB data cable, or manually with the knob integrated into the motor unit. X-Y-Z configurations are easily assembled without the use of additional adapters. Encoder versions are available for all travel lengths, with 500 Counts per Revolution (CPR) rotary quadrature encoders integrated into the stepper motor. The integrated rotary encoder provides closed-loop control and slip/stall detection and recovery.

Note: 24-48 VDC universal power supply, data cables for daisy chaining, and computer interface cables (USB or RS-232) are sold separately as accessories. Dust Cover Kits for all travel lengths can be found in the accessories tab, and are ideal for preventing dust particles from reaching the lead screw drive mechanism.

Technical Information

Device Overview / Connectors

Images are shown looking into the device.

Power

1

2

Pin	Description
1	24 - 48 V
2	GND (Note: power supplies ground this pin to AC Earth)

Note: To prevent damage to the device due to static buildup, the device should be properly grounded. The power supplies for X-Series devices are non-isolated and thus ground the device chassis to Earth via the negative terminal of the power supply. If for any reason you are using an isolated power supply, please ensure your device is grounded by connecting the negative terminal of the power connector to AC Earth.

The diagram consists of three technical drawings of the Zaber Long Travel Motorized Stage:

- Top View:** Shows the top of the stage with dimensions: 41.8 (height), 12.7 Spacing (for #8-32 screws), 12.5 Spacing (for M6 x 1.0 screws), 25 (width), 44 (width), 50 (width), 65 (width), 20 (width), 6 (width), and 2.5 at Home.
- Side View:** Shows the side of the stage with dimensions: 14 (width), 99 (length), 6 (width), 12 (width), 7.3 (height), and LEDs.
- Front View:** Shows the front of the stage with dimensions: 64 (width), 25 (width), 65 (width), 15.6 (height), 38.8 to Top of Carriage, and 45.3 (height).