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20mm Zaber™ Vertical Translation Stage, Integrated Controller, Rotary Encoder

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20mm Zaber™ Vertical Translation Stage, #15-292

Stock **#25-044** **1 In Stock**

⊖ 1 ⊕ €3.020⁰⁰

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Product Downloads

General

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control:**

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 (Z) **Type of Movement:**

Ball Bearing **Guide System:**

64 x 64 **Stage Size (mm):**

20 **Travel (mm):**

50, Unidirectional **Accuracy (µm):**

< 35 **Backlash (µm):**

73 Retracted, 93 Extended **Height (mm):**

10 **Load Capacity (kg):**

100 (Centered Load) **Load Capacity (N):**

<1 **Repeatability (µm):**

Max 48 **Speed (mm/s):**

200 (Peak) **Thrust (N):**

0.57 **Weight (kg):**

500 CPR **Encoder Resolution:**

Optical Properties

0.09525 **Resolution (µm):**

Electrical

1500 **Current (mA):**

Hardware & Interface Connectivity

Stepping Motor **Type of Drive:**

Not included, see the Accessories tab for recommended 24 to 48V Power Supply & Tech Info tab for connector information. **Power Supply:**

USB with [#15-295](#) RS-232 with [#15-297](#) **Computer Interface:**

Environmental & Durability Factors

0 to 50 **Operating Temperature (°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Product Details

- Compatible With [Zaber™ High Precision Motorized Stages](#) in XYZ Configurations
- 20mm of Travel with Up to 48mm/s Speed
- 10kg Load Capacity, 20kg Peak Thrust
- Vacuum-Compatible Options
- Power Supply and Data Cable Sold as Separate Accessories
- Available with Integrated, 500 Counts per Revolution (CPR) Motor Mounted Encoder

The Zaber™ Vertical Translation Stage is a stepper actuator-driven platform that can lift weights of up to 10kg across 20mm of travel and at speeds reaching 48mm/s. The vertical translation stage can be controlled by a computer, or via the built in controller and potentiometer. Encoder versions are available for all travel lengths, with 500 Counts per Revolution (CPR) rotary quadrature encoders integrated into the stepper motor. The Zaber™ Vertical Translation Stage measures only 55mm tall when closed, which eases system integration and allows mounting on the Zaber™ High Precision Motorized Stages to provide XYZ translation. The top mounting surface features M6 and M3 compatibility, while the bottom surface can be secured using M6 or ¼-20 components.

Note: A 24-48 VDC universal power supply, data cables for daisy chaining, and computer interface cables (USB or RS-232) are sold separately as accessories.

Technical Information

Device Overview / Connectors

Images are shown looking into the device.

Power

| 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.

