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25.0/25.4mm Optic Dia., 10 Position Motorized Filter Wheel, Integrated Controller, Rotary Encoder

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General

Model Number:
Zaber X-FWR06A-E02-FH0625

Encoder:
Yes

Encoder Type:
Rotary quadrature encoder

Physical & Mechanical Properties

1.508 **Weight (kg):**

360 **Travel (°):**

<0.1 **Repeatability (°):**

< 0.19° **Backlash (°):**

0.4 Unidirectional **Accuracy (°):**

0.006542 **Speed (°/s):**

Rotary **Type of Movement:**

400 CPR **Encoder Resolution:**

Electrical

650 **Maximum Operating Current (mA):**

Hardware & Interface Connectivity

Not included, see the Accessories tab for recommended 24 to 48V Power Supply **Power Supply:**

Two Phase Stepping Motor **Type of Drive:**

Threading & Mounting

25.00 - 25.40 **Size of Compatible Optics (mm):**

6.5 **Thickness of Compatible Optics (mm):**

Environmental & Durability Factors

0-50 **Operating Temperature (°C):**

Regulatory Compliance

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

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

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

Product Details

- Built-In Controller for Easy Configuration
- Interchangeable Filter Holder For 10X25 mm Diameter Optics
- Free Robust Software [Available](#)

Zaber™ Motorized Filter Wheels are computer controllable via USB or RS-232 connection or with an indexed knob that provides smooth manual control in both directions. Featuring C-mount input and output threads, these filter wheels easily integrate with a variety of cameras, lasers, and additional mechanics. The filter wheels can be easily operated to move at constant speed (velocity mode) or at constant positional increments (index mode), simplifying system integration. Zaber™ Motorized Filter Wheels are easily daisy chained, feature a stepper motor with a built in encoder, and include interchangeable filter holders. These filter wheels are ideal for use with microscopes, cameras, and video systems where multiple filter options are required.

The free intuitive software available from Zaber allows for computerized control of all computer compatible Zaber products. Compatible with serial ports, USB, Ethernet, or IoT, this software provides excellent functionality to connected devices while granting the ability to easily change between or program each individually. A link to the software can be found [here](#) or in the downloadable documents section attached to the parts.