

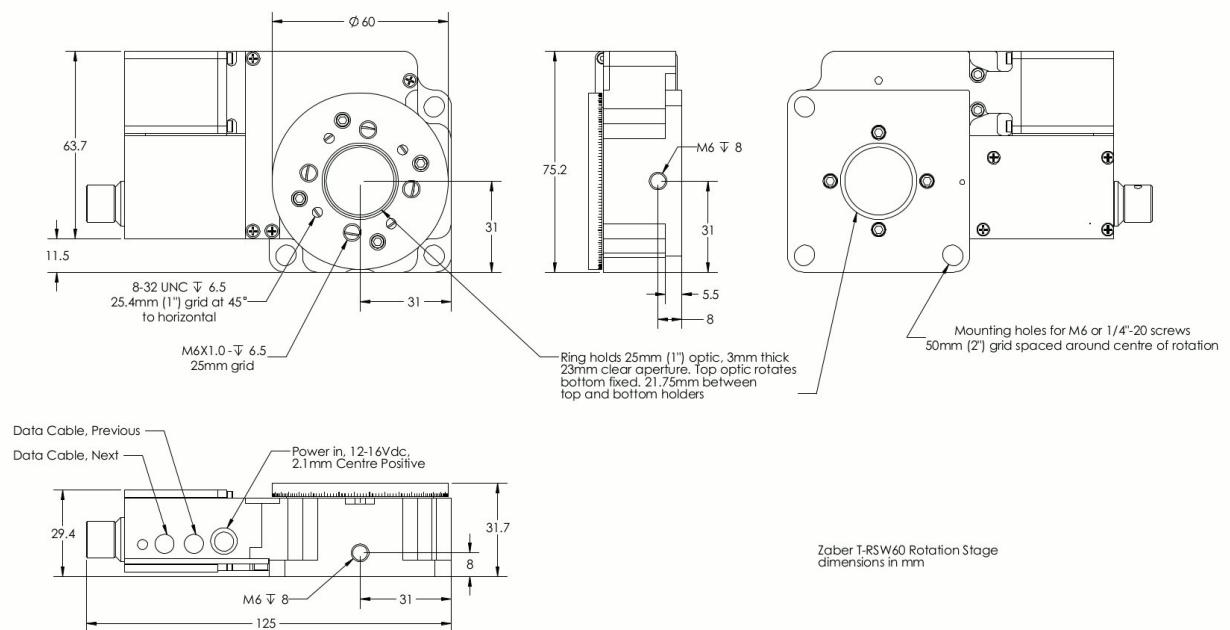
T-RSW Series Datasheet



- Worm gear driven for continuous rotation
- Two lens holders allow for use as a polarizer mount
- Speed up to 8 rpm
- Torque up to 70 N-cm
- 23 mm aperture
- Built-in controller; daisy-chains with other T-series products

Zaber's T-RSW Series of precision motorized rotary stages are stepper motor driven, worm gear rotary stages capable of a full 360 degree rotation. Each rotary stage has an integrated microstepping stepper motor controller, offering high resolution daisy-chainable operation.

Drawings



Specifications

Specification	Value	Alternate Unit
Built-in Controller	Yes	
Weight	1.08 kg	2.381 lb
CE Compliant	Yes	
RoHS Compliant	Yes	
Operating Temperature Range	0-50 °C	
Vacuum Compatible	No	
Manual Control	Yes, Potentiometer	
Limit or Home Sensing	Magnetic home sensor	
Mechanical Drive System	Precision Worm Gear	
Data Cable Connection	Minidin 6	
Default Resolution	1/64 of a step	
Inductance	4 mH/phase	
Motor Type	Stepper (2 phase)	
Power Plug	2.1 mm Centre Positive	
Power Supply	12-16 VDC	
Maximum Current Draw	330 mA	
Stage Top Dimension	60 mm	2.362 "
Guide Type	Pre-loaded ball bearing	
Maximum Cantilever Load	410 N-cm	580.6 oz-in
Maximum Centered Load	200 N	44.9 lb
Maximum Continuous Torque	70 N-cm	99.1 oz-in
Communication Protocol	Zaber Binary	
Communication Interface	RS-232	
Encoder Type	None	
Minimum Speed	0.0011 °/s	19.198 μrad/s
Maximum Speed	13.2 °/s	2.2 rpm
Backlash	< 0.08 °	< 1.396 mrad
Repeatability	< .02 °	< 0.349 mrad
Accuracy (unidirectional)	0.14 °	2.443000 mrad
Range	360 °	

Specification	Value	Alternate Unit
Microstep Size (Default Resolution)	0.000234375 °	4.091 μ rad

Charts

