

T-NA Series Datasheet

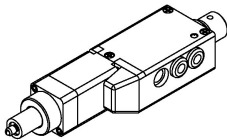


- 25 and 50 mm travel
- Up to 8 mm/s speed and up to 50 N thrust
- Our most compact, precise and robust actuators with built-in controllers
- Built-in controller; daisy-chains data and power with other T-Series products
- Designed to replace standard micrometer heads on manual translation stages
- Hardened ball-tip (removable so you can use the built-in threaded tip or a flat tip)
- Custom versions available

Please see our TSB linear slides for more information on compatible slides.

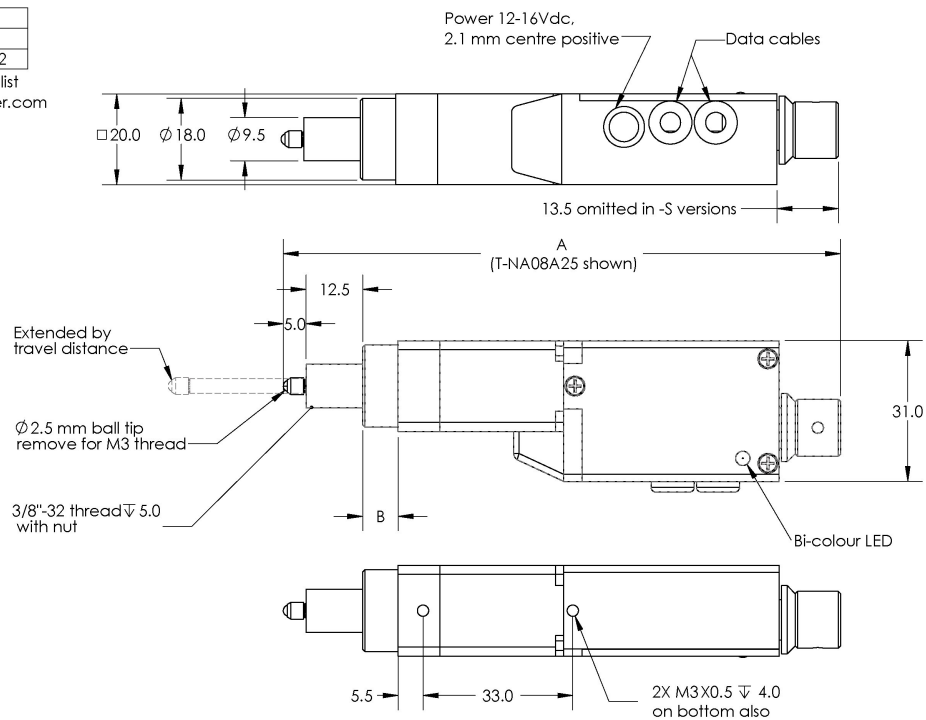
Drawings

ZABER
T-NA Micro Linear Actuator
dimensions in mm



Model Number*	Travel	A	B
T-NA08A25	25.4	122.8	7.8
T-NA08A50	50.8	147.8	33.2

*See product page for complete list of available models at www.zaber.com



DWG 1072 (R1)

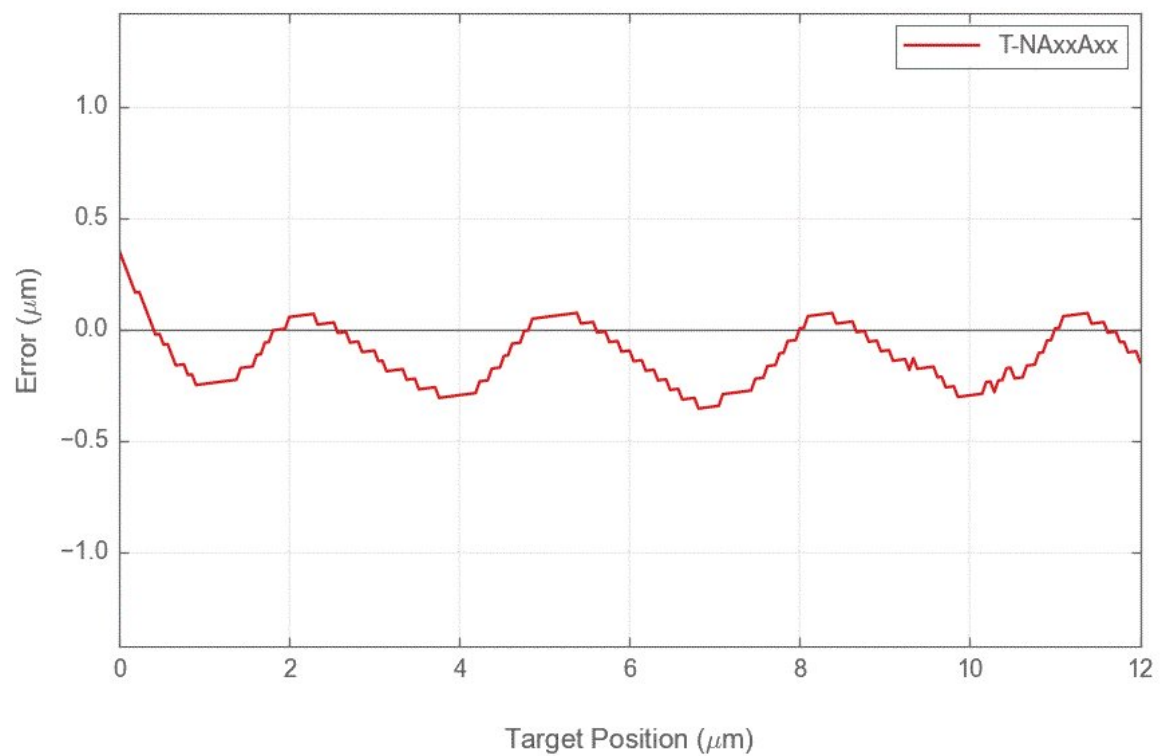
Specifications

Specification	Value	Alternate Unit
CE Compliant	Yes	
RoHS Compliant	Yes	
Operating Temperature Range	0 to 50 °C	
Peak Thrust	50 N	11.2 lb
Weight	0.13 kg	0.287 lb
Vacuum Compatible	No	
Mounting Interface	3/8-32 nut, 3/8" shank, or M3 screws	
LED Indicators	Yes, Bi-colour	
Axes of Motion	1	
Manual Control	Yes	
Limit or Home Sensing	Magnetic hall sensor	
Mechanical Drive System	Precision lead screw	
Data Cable Connection	Minidin 6	
Default Resolution	1/64 of a step	
Inductance	1.5 mH/phase	
Motor Type	Stepper (2 phase)	
Motor Steps Per Rev	200	
Power Plug	2.1 mm center positive	
Power Supply	12-16 VDC	
Maximum Current Draw	350 mA	
Communication Protocol	Zaber Binary	
Communication Interface	RS-232	
Maximum Continuous Thrust	50 N	11.2 lb
Microstep Size (Default Resolution)	0.047625 µm	
Built-in Controller	Yes	
Travel Range	25.4 mm	1.000 "
Accuracy (unidirectional)	15 µm	0.000591 "
Repeatability	< 1 µm	< 0.000039 "
Backlash	< 4 µm	< 0.000157 "

Specification	Value	Alternate Unit
Maximum Speed	8 mm/s	0.315 "/s
Minimum Speed	0.00022 mm/s	0.000009 "/s
Encoder Type	None	
Speed Resolution	0.00022 mm/s	0.000009 "/s

Charts

Typical Microstepping Accuracy



Thrust Speed Performance

