CONEX-AG-PR100P



PIEZO MOTOR ROTATION STAGE WITH INTEGRATED CLOSED-LOOP CONTROLLER CONNECT EASILY - CONTROL SIMPLY



For Motion, Think Newport™

The CONEX-AG-PR100P is a piezo motor rotary stage integrated with a closed-loop piezo motor controller/driver. Originally targeted for repeatable positioning of polarizing optics, it can also be used as a miniature rotation stage for precision positioning of other optics or lightweight samples.

For out-of-the box control, the CONEX-AGP controller is preconfigured and delivered with an Agilis AG-PR100P rotary stage with a built-in direct read encoder. The CONEX-AGP is a very compact and inexpensive single axis motion controller with the same driver as the proven Agilis piezo motor driver. The controller comes with the familiar CONEX GUI, simple and intuitive to use and conveniently accessible via USB, which also supplies power to the controller.

The CONEX-AGP closed-loop algorithm is a simplified version of the typical DC servo loop algorithm, and combined with the rotary encoder, provides a system uni-directional repeatability of 0.002°. For stability in-position, the user can adjust the deadband parameter that stops dithering when the stage is within a set position tolerance.

The CONEX-AG-PR100P is based on the Agilis AG-PR100 rotary stage, but features an innovative miniature direct read encoder. The footprint is maintained while delivering 0.003° bi-directional repeatability, a benefit from direct read encoder technology. The rotary stage is very compact, but is capable of 340° travel, and 0.001° MIM. For safety, hard stops are included.

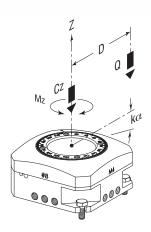
Travel

•	Highly	repeatable	angular	motion

- High sensitivity (MIM)
- Compact size
- Affordable and quick delivery
- Integrated and easy to setup

Specifications

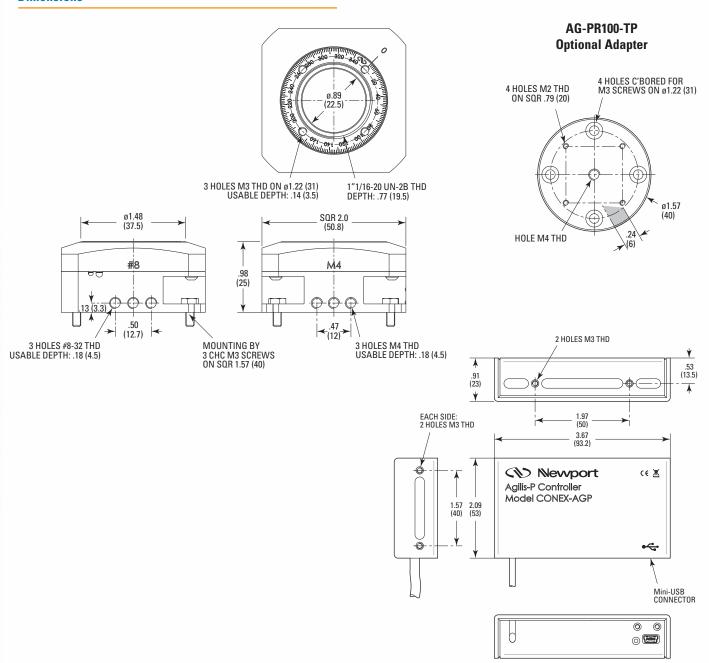
Travel	340°		
Minimum Incremental Motion, MIM	0.001°		
Uni-directional repeatability	0.002°		
Bi-directional repeatability	0.003°		
On-axis accuracy	0.08°		
Origin repeatability	0.002°		
Maximum speed	1.5 °/s		
Wobble	100 μrad		
Cz, Normal load capacity	2 N		
Klpha, Transversal compliance	200 μrad/Nm		
Mz, Nominal torque	0.02 Nm		
Q, Off-center load	$0 \le Cz/(1 + D/16)$		
D, Cantilever distance (mm)			





CONEX-AG-PR100P

Dimensions





Newport Corporation, Global Headquarters

1791 Deere Avenue, Irvine, CA 92606, USA

PHONE: 1-800-222-6440 1-949-863-3144 FAX: 1-949-253-1680 EMAIL: sales@newport.com Complete listings for all global office locations are available online at ww

Р	Н	O	N	I

Belgium +32-(0)0800-11 257 China +86-10-6267-0065 +33-(0)1-60-91-68-68 France

+81-3-3794-5511 Japan +886 -(0)2-2508-4977

EMAIL belgium@newport.com china@newport.com france@newport.com spectra-physics@splasers.co.jp sales@newport.com.tw

PHONE +1-800-222-6440 Irvine, CA, USA Netherlands +31-(0)30 6592111 United Kingdom +44-1235-432-710 Germany / Austria / Switzerland

+49-(0)6151-708-0

sales@newport.com netherlands@newport.com uk@newport.com

germany@newport.com

EMAIL

Newport Corporation, Irvine, California and Franklin, Massachusetts; Evry and Beaune-La-Rolande, France and Wuxi, China have all been certified compliant with ISO 9001 by the British Standards Institution, Santa Clara, California is DNV certified.