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Find the *Newport NSA12* at our website: ***Click HERE***

The NSA12 boasts the most compact build and the lowest costing stepper motor actuator. It is used for easily motorizing mirror mounts in confined spaces. If you need a controller for this actuator see our CONEX-NSA12 integrated solution. Newport does not offer a stand-alone controller for this model.

- Lowest cost
- Most compact
- Integrated optical limit switch prevents component and motor damage
- Non-rotating tip
- Vacuum compatible versions to 10^{-6} hPa available

See All Features



Specifications



Models	(/p/NSA12) NSA12 (/p/NSA12)	(/p/NSA12V6) NSA12V6 (/p/NSA12V6)
Axial Load Capacity (+Cx)	0 N	0 N
Inverse Axial Load Capacity (-Cx)	-28 N	-14 N
Travel Range	11 mm	11 mm
Minimum Incremental Motion	0.20 µm	0.20 µm
Maximum Speed	0.9 mm/s	0.45 mm/s
Bi-directional Repeatability (Typical)	±5.0 µm	±5.0 µm
Uni-directional Repeatability (Typical)	2.2 µm	2.2 µm
Drive Screw Pitch	0.3048 mm	0.3048 mm
Origin	Optical, at lower limit	Optical, at lower limit
Origin Repeatability	±2 µm	±2 µm
Limit Switches	Limit switch on the motor side	Limit switch on the motor side
Cable Length	3 m	3 m
Power Consumption	5 W	5 W

Features

Ideal for Mirror Mounts

With 11mm of travel and compact size, the NSA12 can be used to easily motorize manual positioning stages. For a complete list of compatible manual stages see Stage to Actuator Selection Guide.



Ultima mirror mount with NSA12 actuators.



NSA12V6 - Vacuum compatible up to 10-6 hPa

Vacuum Compatible Stepper Motor Versions

The NSA12V6 is the vacuum compatible stepper model specifically designed for vacuum applications up to10^{-6} hPa.

Compact Build

At 60 mm length by 30 mm diameter, the NSA12 is the smallest actuator on the catalog. It is great for small, confined spaces.

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Non-rotating Tip

NSA actuators feature a non-rotating tip that prevents wear and avoids periodic motion variations during movement. Better positioning repeatability and eliminates tip wear.

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