

## LNII Linear Series Low-Noise Drive



The LNII drive is a self contained bipolar linear amplifier microstepping drive. The units unique microprocessor controlled multilevel drive eliminates the noise problems associated with pulsewidth modulated drives without sacrificing performance. The drive's low EMI/RFI radiation makes it an ideal choice for noise sensitive precision measurements required in disk testers and sonar measurements.

The standard system has switch selectable resolutions from 51200 to 400 steps per revolution; yielding the resolution and smoothness required for critical applications. A wide range of motors are available offering torque from 60 to 380 in-oz.

Optically isolated step and direction inputs prevent ground loops with connecting equipment. Custom OEM options are available. Current is programmable in 39 ma. increments up to 2.5 amp.

### Features

- \* Industry standard Step and Direction interface
- \* Short circuit/temperature protection
- \* Remote disable command line
- \* Current waveform selection
- \* Fan cooled enclosure
- \* Speeds to 50 rev/sec
- \* Virtually no radiated electrical noise (EMI)
- \* 95-130 /185-270 VAC 50/60 Hz AC line isolated supply

# Drive Specifications

## Performance (unloaded motor)

Repeatability:  $\pm 5$  arc-seconds (unidirectional)  
 Accuracy:  $\pm 5$  arc-minutes (bidirectional)  
 Step-to-Step Accuracy:  $\pm 20$  arc-seconds (unidirectional)

## Inputs (optically isolated) 5 to 6.0 VDC, 20 ma.

Step : 250 nanosecond min.  
 Direction: 100 usec setup and hold  
 Shutdown: 10 msec min.

## Output 25 Vdc, 5ma. max

Fault : optically isolated

## Optional RS232

## Environmental – Operating

Driver: 0 to 60 °C measured at the heat sink  
 Motor: 110 °C measured at the motor case  
 Ambient: 10 to 40 °C, 0 to 95% humidity,  
 non-condensing

## Environmental – Storage

Motor + Driver: -40 to +80 °C, 0 to 95% humidity,  
 non-condensing

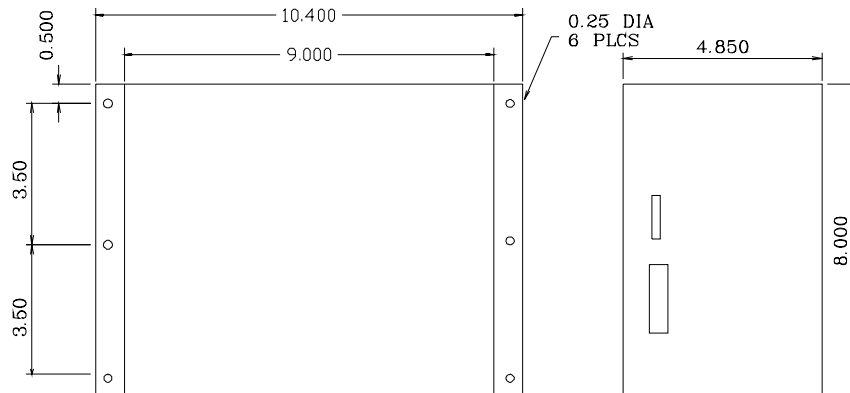
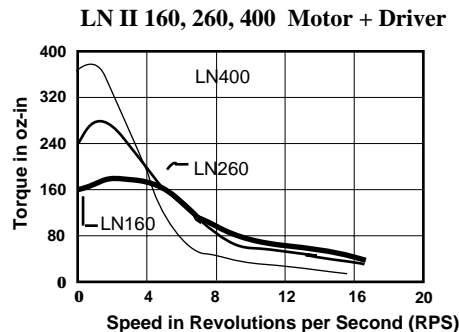
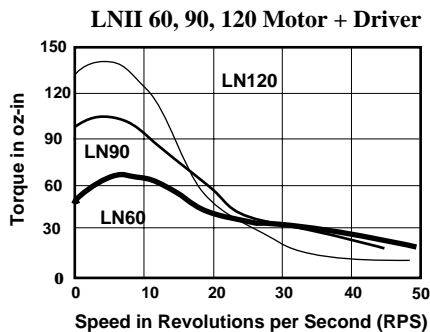
## Power 95-130/185-270 VAC 50/60 Hz, 1.2 A

## Weight 14 Lb.

# Motor Specifications

Model	LNII-60	LNII-90	LNII-120	LNII-160	LNII-260	LNII-400
Static Torque (oz-in):	60	90	120	150	240	400
Motor size	23	23	23	34	34	34

Double shaft motors are standard add -s suffix for single shaft



## Indexer connector:

25 pin D

1. Step+
2. Direction+
9. Fault+
11. Rx D
12. RS232 Ret
14. Step-
15. Direction-
16. Shutdown+
17. Shutdown-
21. Fault-
24. Tx D

## Motor connector :

5 pin terminal block

1. A+
2. A-
3. Gnd
4. B+
5. B-

## Precision Motion Controls

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