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Product Name :
Step Motor Control

Product Code :
LBNY-0005-12400093



Description :

It allows the students performing study and experimentation concerning the driving of a step motor, unipolar or bipolar. The rotation can be performed with increments of a single step or with continuity, at a variable speed. This board is designed to provide a valid support for the study of the operation and of the application criteria of these important electro mechanical components. Position and direction are indicated by a disk. An LCD display allows showing the number of steps, the number of turns, the rpm, the rotation direction and the selected parameters of the controller.

Experiments:

- Study of an incremental position encoder
- Variable speed rotation control
- Inversion of the rotation direction
- Analysis of the control criteria and of the power modules
- Full step or half step
- Analysis of the operation of a step motor.

Technical Specification :

Technical Features:

- Number of phases: 4
- Max. Power: 16 W
- Step angle: 1.8°
- Current/phase max: 1.5 A
- Sense of rotation: reversible

Power supply: 90/260 Vac, 50/60 Hz
Variable frequency from 20 Hz to 500 Hz through potentiometer.



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