



Two axis stepper motor controller without encoder

update: 2016/10/10

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**This controller is
able to drive up to
two actuators
using stepper
motor**



Image is for illustrative purpose only

Design

This controller is a two axis self-system for bipolar stepper motor which is able to drive up to two actuators.

Thanks to its USB communication interface, this converter permits the user to send frames to drive each axis. Frames are sequentially processed by each axis which are independent of each other.

For each actuator, this controller is able to manage end-of-travel sensors (positive and negative) and homing sensor with the ability to enable/disable depending on the type of actuator.

Applications

- Driving of positioning actuator based on stepper motor
- Driving of laboratory system with Windows GUI application



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Technical features

| | |
|-------------------------------|---|
| Power supply | +24V \pm 10% (AC/DC converter supplied) |
| Input current | 2A max |
| Number of axis | 2 |
| Motor type | Bipolar stepper motor with 4 wires |
| Motor current | 1A RMS, 2A peak |
| Communication | USB |
| Digital inputs | 3 end-of-travel sensors (EOT+, EOT- and HOME for each axis) |
| Inputs | 1 x jack female socket (power supply) |
| | 1x USB type-B socket |
| Output | 1 (or 2) output(s) actuator on SUBD9 female socket(s) |
| Indicators | Default (red), Move in progress (yellow) et status (green) |
| Cooling | Natural convection |
| Dimensions (L x d x h) | <u>Box</u> : 125 x 240 x 45mm |
| | <u>AC/DC converter</u> : 50 x 115 x 35mm |
| Weight | <u>Box</u> : 0,9kg |
| | <u>AC/DC converter</u> : 0,5kg |