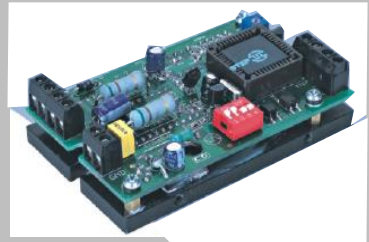


# Model P300 Stepper Motor Driver



## General Specification

Model P300 is a low cost compact open frame bipolar stepper driver which gives a maximum output current of 1A per phase, in full stepping mode or six microstepping ranges. The driver uses a full bridge bipolar pulse width modulated MOSFET technique to control stepper motors in 2-phase or 4-phase modes.

### Key Features

- Supply voltage 18V – 36V dc.
- Output current 0.2A - 1.0A / phase
- PWM constant current bipolar drive
- 7 operation modes with maximum 64 microstepping options
- Opto-isolated digital signal inputs
- Low noise and vibration drive performance

### Power Input

The standard power input for the P300 is a dc input voltage of 18-36V. Alternatively, an unregulated, smoothed, rectified ac transformer output can be used as the supply. In this case, the rectified ac peak voltage must be <38V and the transformer secondary ac output must be <23V. The correct input voltage polarity should be observed when connecting the driver.

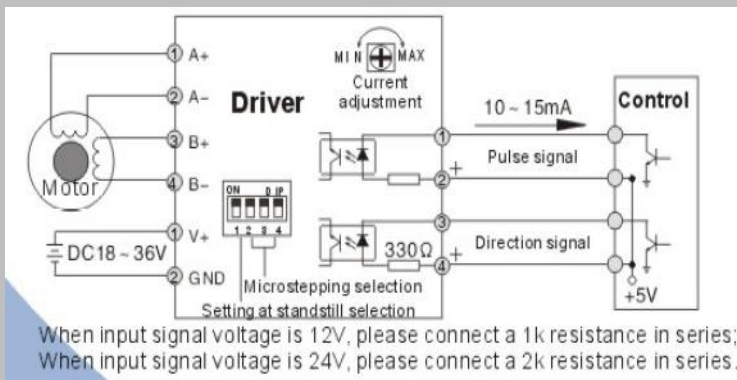
### Additional Specifications

Dimensions	22 x 55 x 88 mm
Mass	150g
Pulse Input Signal	Photocoupler input voltage 3.5-5.5V
Direction Input Signal	Photocoupler input voltage 3.5-5.5V
Input Impedance	330Ω
Operating Temperature	-10°C to +45°C
Humidity Range	40-85% RH
Heat Dissipation	For phase currents >0.8A, additional heatsinking is needed.

Microstepping Resolution Selection				
Sw 2	Sw 3	Sw 4	Div	Steps
On	On	On	Full	200
On	On	Off	2	400
On	Off	On	4	800
On	Off	Off	8	1600
Off	On	On	16	3200
Off	On	Off	32	6400
Off	Off	On	64	12800
Off	Off	Off	64	12800

Switch 1 Position	Standstill Current
On	Full
Off	Half

### Connection Diagram



### Board Dimensions (mm)

