

# SL2690A Datasheet

## 2 Phase Hybrid Stepper Drives Manual



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## PRODUCT OVERVIEW

SL2690A Drives are high performance digital 2-phase hybrid Stepper Drives newly released by Shenzhen Penhui Technology Co., Ltd. The Drives use PI controller to achieve low heating, low noise, low cost and high stability.

The Drives have 16 selectable resolutions and 16 selectable current setting. To improve reliability, the Drives have some built-in protection functions, they alarm when over voltage, under voltage and over current.

Optoelectronic isolation is employed to the input control signal. In self-running mode, the running speed could be set by SW5-SW8 switches.

External control signals are also used to control the motor motions like stop, start , forward and reverse.

The 4-28V signal level is used for protection of pulse, direction and enable.

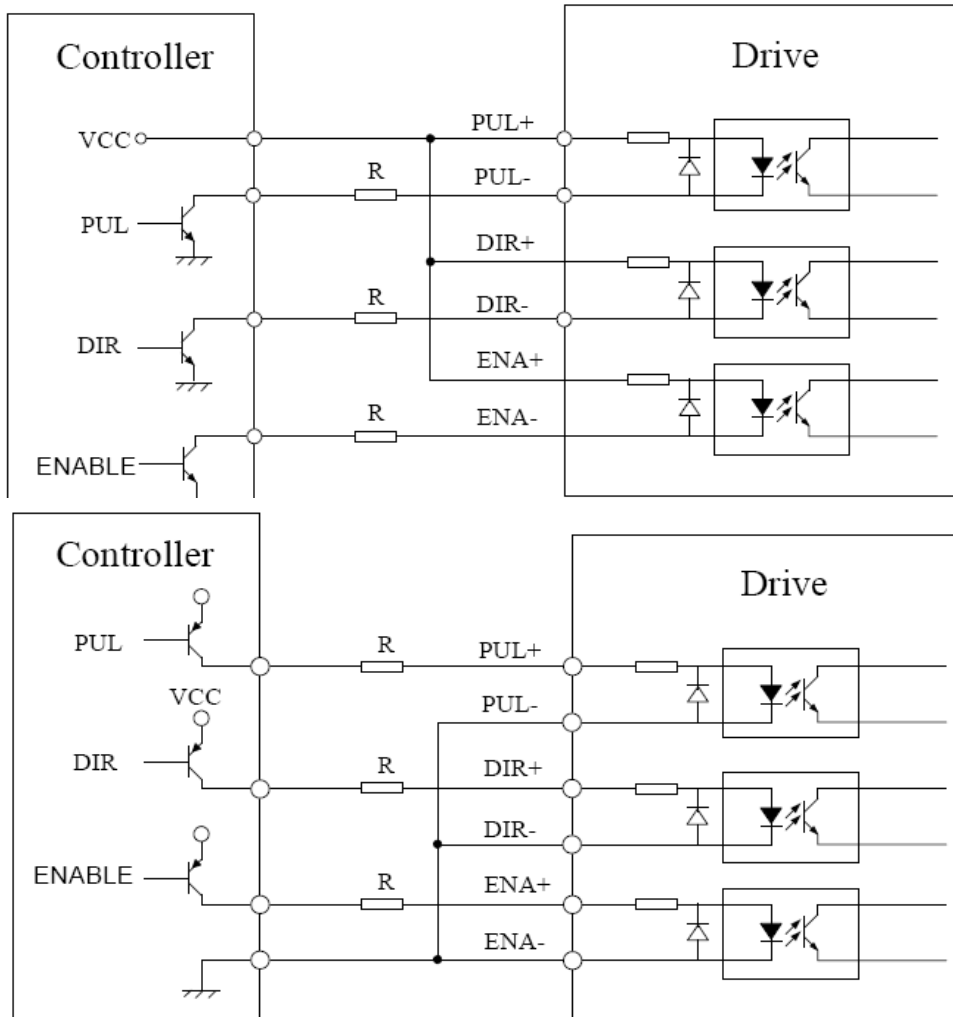
Integrated cooling function is built in to auto cut the current.

## DOCUMENT HISTORY

<b>Version 1.0</b>	Creation
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## TECHNICAL SPECIFICATION

<b>Chip</b>	TB6600
<b>Operating Voltage Electronics</b>	5V
<b>Operating Voltage High</b>	9-24V
<b>Max current</b>	6.5A
<b>Current adjustable</b>	Yes



## BASIC WIRING

The following diagram shows how to connect the stepper driver within you application. Review the documentation of the electronics for details on the three signal lines. Note that the voltage applied from the microprocessor should be 5V. You can connect a 9 to 24V DC power source to VCC/GND.

## DIPSWITCH SETTINGS

You can set the current and microsteps using the dipswitches SW1-SW6 on the side. Refer to the following tables for details.

### Microsteps

Micro steps	Pulse/rev	SW1	SW2	SW3
-	-	ON	ON	ON
1	20	ON	ON	OFF
2/A	400	ON	OFF	ON
2/B	400	OFF	ON	ON
4	800	ON	OFF	OFF
8	1600	OFF	ON	OFF
16	3200	OFF	OFF	ON
32	6400	OFF	OFF	OFF

### Current setting

Current (A)	Peak current	SW4	SW5	SW6
0.5	0.7	ON	ON	ON
1.0	1.2	ON	OFF	ON
1.5	1.7	ON	ON	OFF
2.0	2.2	ON	OFF	OFF
2.5	2.7	OFF	ON	ON
2.8	2.9	OFF	OFF	ON
3.0	3.2	OFF	ON	OFF
3.5	4.0	OFF	OFF	OFF