Name: MKS LV8729

Overview

MKS LV8729 is created by MAKER BASE(MKS),which is a ultra quiet stepper motor driver, and supports EN+/- input .
MKS LV8729 supplies DC 9~32V,and good for Nema stepper motor which has current less than 1.5A.
This driver controls microstep by digital current loop, which makes motor steady, quiet and precise.
MKS LV8729 does good work with MKS GEN,MKS SBASE and RAMPS1.4 controller board on 3d printer ,carving machine, CNC, etc.

Shipping List

1pcs* MKS LV8729
1pcs* MKS 4PIN Cable

Features

1.DC 9-32V,it is better to supply by DC12V or DC24V.
2.Use high speed optocoupler ,not lose step.
3.Use SANYO LV8729,which protects circuit and supports 128 microstep.
4. MAX current:1.5A.
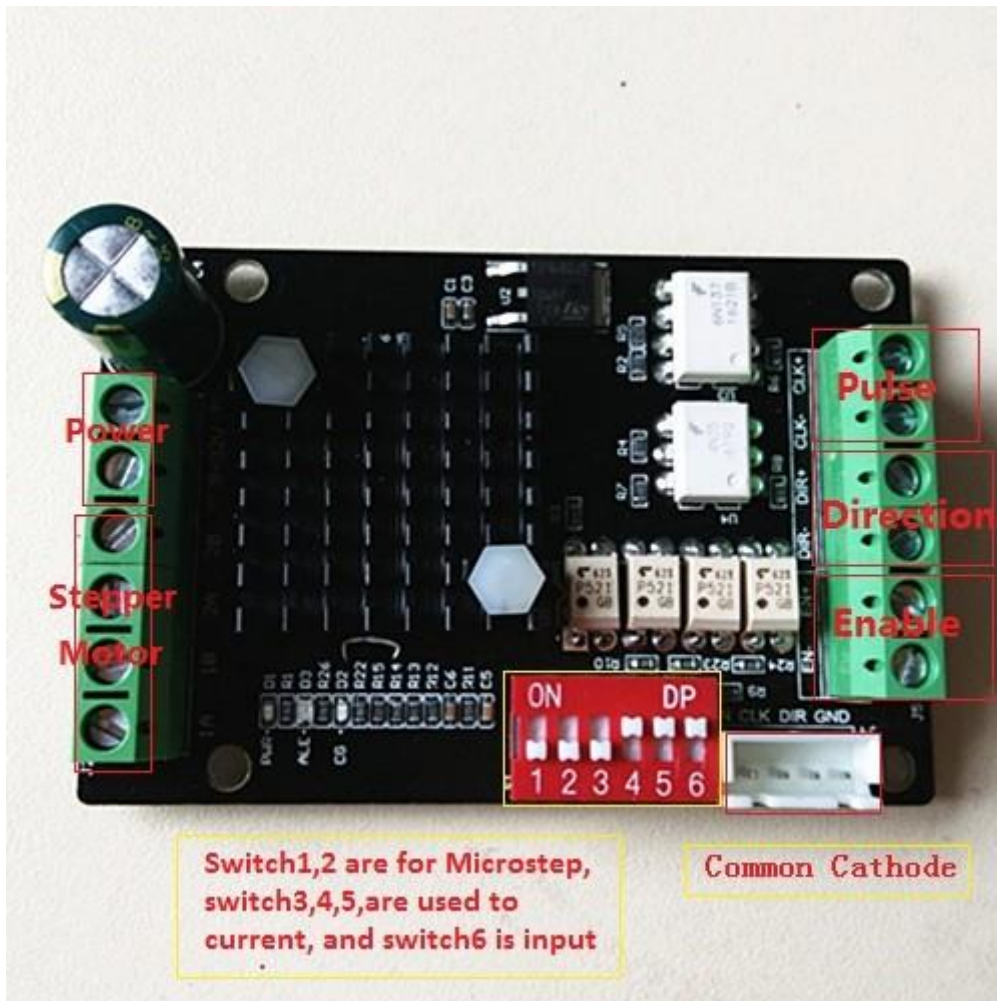5. Microstep: 16 / 32 / 64 / 128.
6.Bigger heat sink, better cooling.

Notice

1.Please mind the polarity of power ,or else will burn the chip.
2.It is better to set the current below the rated current of motor, and advise the current less than 1A.For MEGA2560 controller, advise not over 64 microstep.
3. Switch1,2 are for Microstep, switch3,4,5,are used to current, and switch6 is input mode.
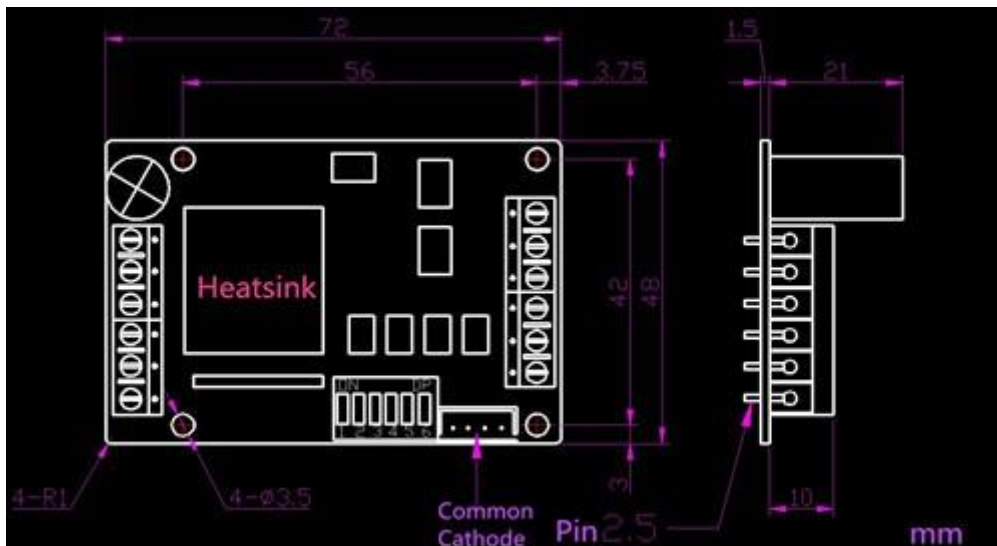As follows:

Microstep setting			Current setting				Input setting	
Step	MI	M2	Current(A)	M3	M4	M5	Input Mode	M6
13	0	0	1.5	1	1	1	Common-Cathode	1
32	0	1	1.3	1	0	1	Common-Cathode	1
64	1	0	1.0	0	1	1	Common-Cathode	1
128	1	1	0.8	0	1	0	Differential Input	0
			0.4	0	0	1	Differential Input	0

Wiring Guide

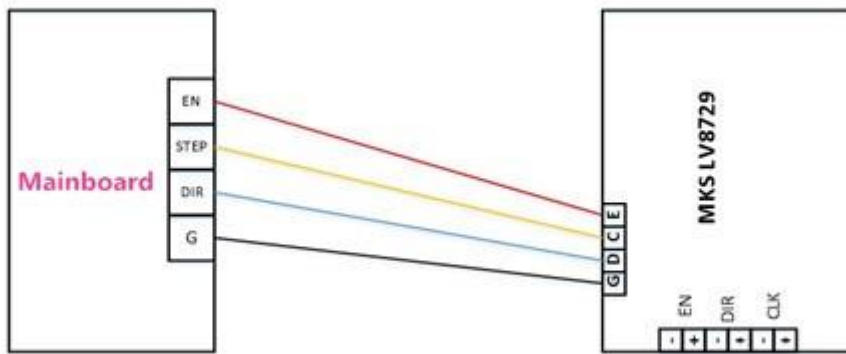Switch1,2 are for Microstep, switch3,4,5,are used to current, and switch6 is input
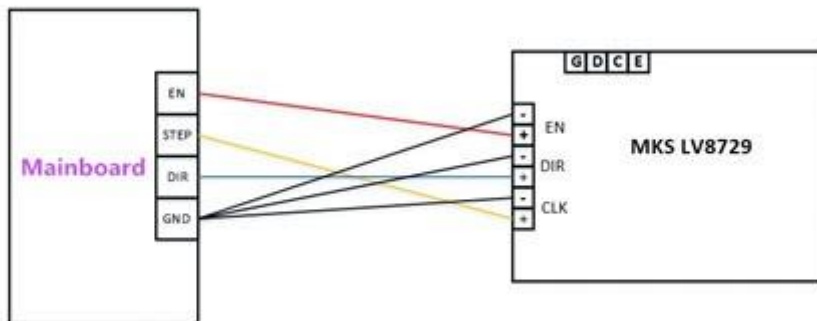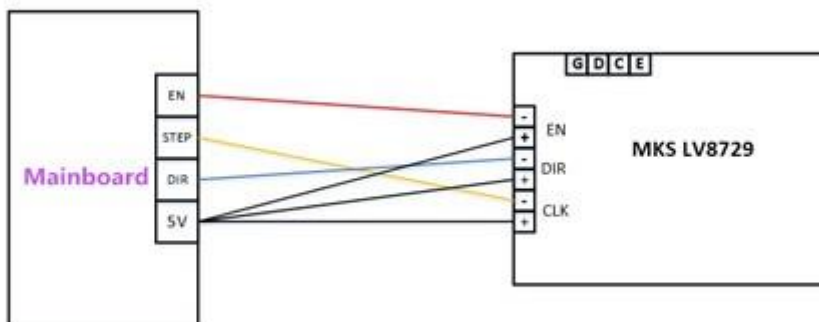
Common Cathode

Size

1). Following wiring scheme is Common Cathode input, which put switch6 to ON.

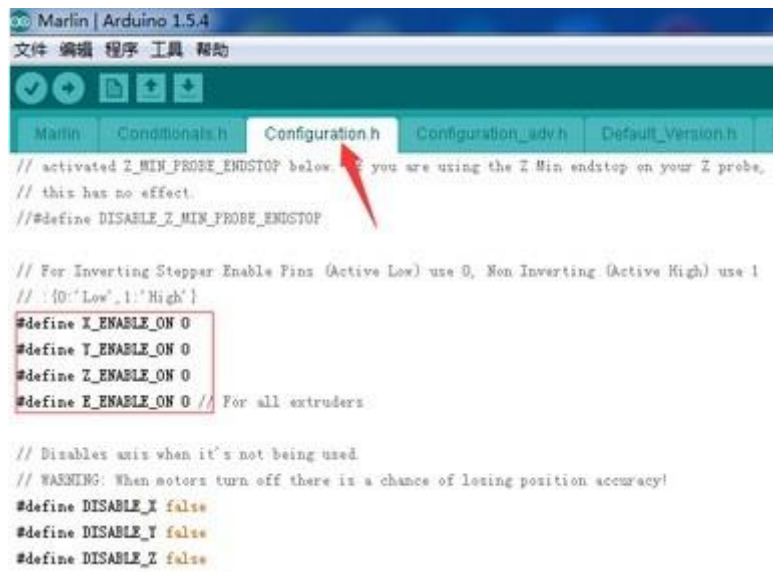2).Following wiring scheme is Common Cathode input, which put switch6 to NO.6.

3).Following wiring scheme is Common Anode input, which put switch6 to NO.6.

Meanwhile,find and modify into following values in Marlin configuration.h .
#define X_ENABLE_ON 1
#define Y_ENABLE_ON 1
#define Z_ENABLE_ON 1

#define E_ENABLE_ON 1

MKS Robin and MKS

According to some customers' feedback, the motor is only in one direction when MKS LV8729-OC works with MKS Robin or MKS SBase. After testing, we found the excessive resistance of the driver's DIR interface caused the insufficient current. To solve such problem, you only need to reduce the resistance value of the drive or make resistance short-circuit.
Method: Remove the R7 resistance of the PCB, solder it to be short circuit, then it can work normally.
Note: the DIR resistance has been changed into 100R, so all the MKS MKS LV8729-OC on sell now can be used directly.