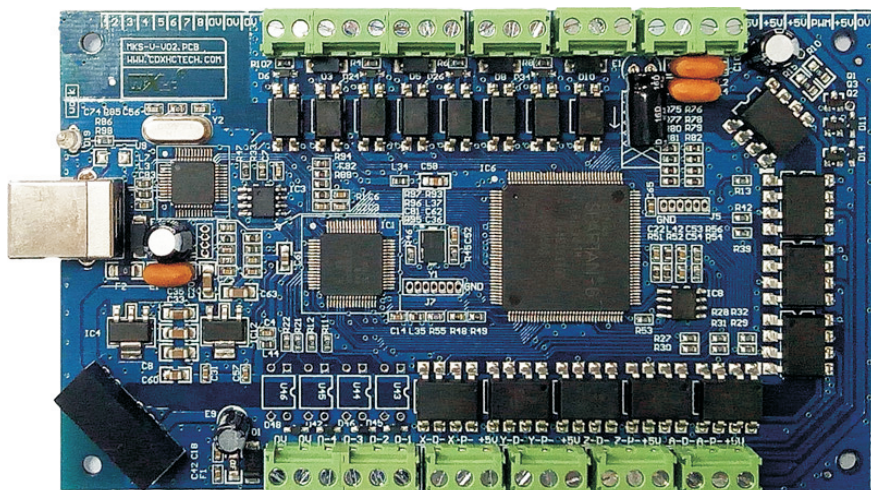


MACH3 Motion Card

MKS-V -Manual

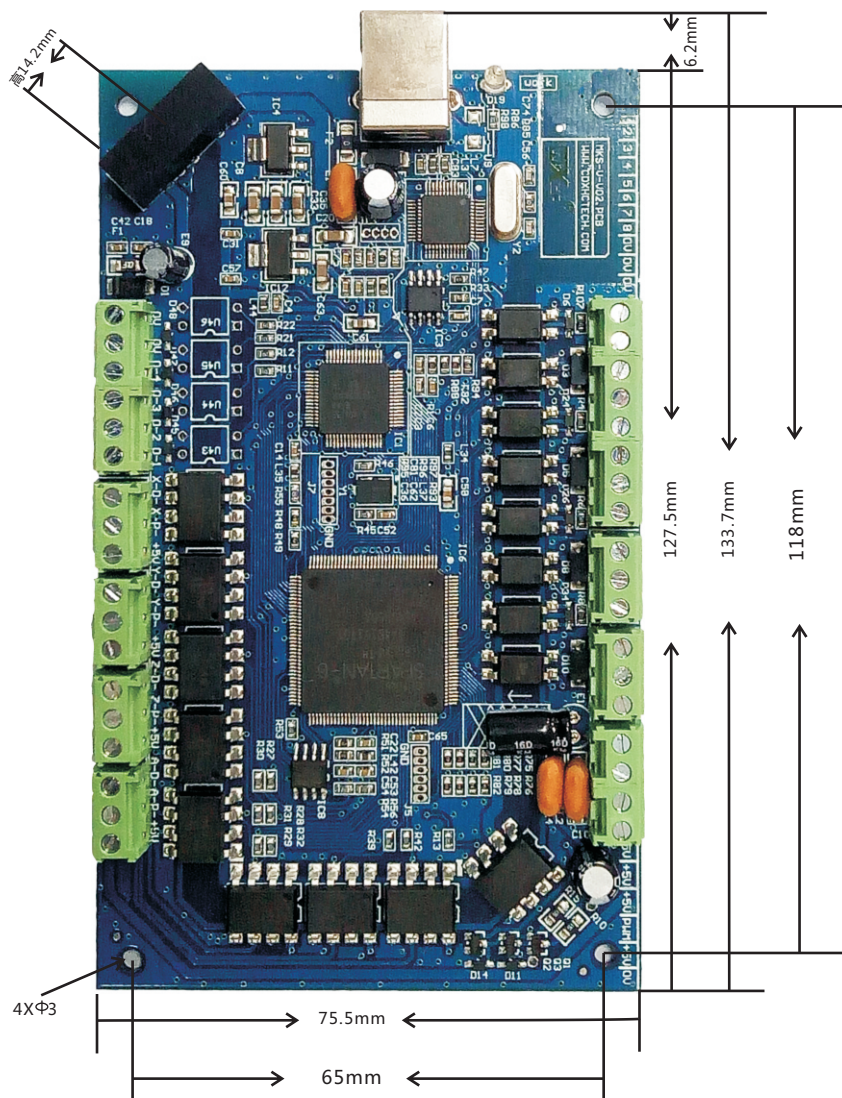


SIZE: 133.7x75.5x14.2mm

MKS3-V: USB interface,3 axis motion card

MKS4-V: USB interface,4 axis motion card

Size



Features



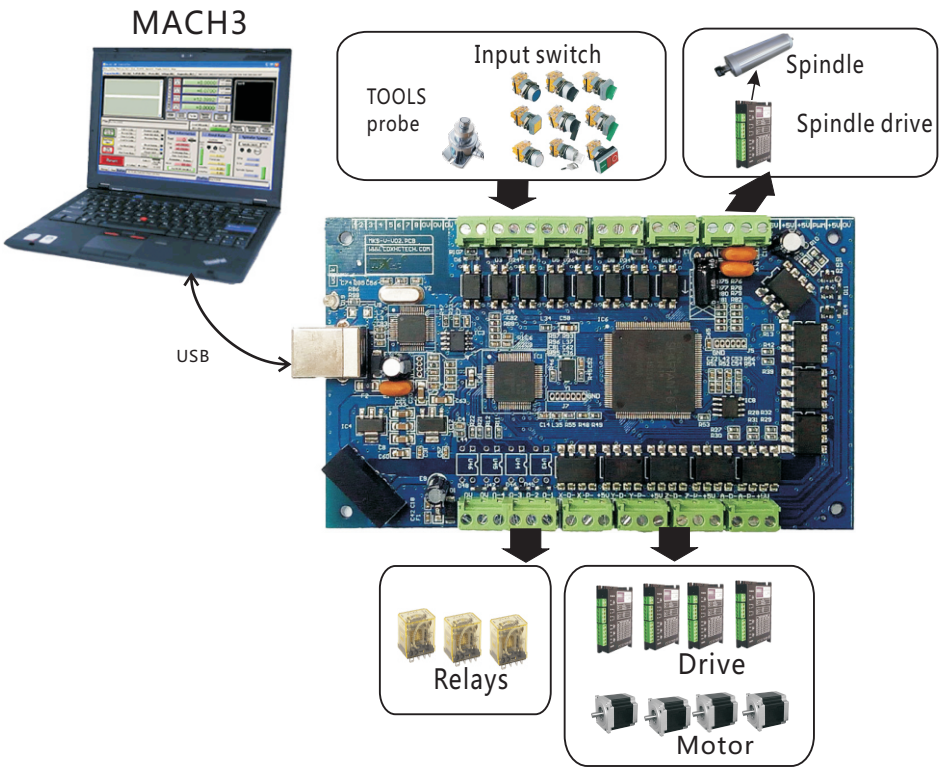
Features:

- ★ Fully supporting all Mach3 versions
- ★ Support 1.5 meters USB cable
- ★ Supports Up 4-axis
- ★ Maximum step-pulse frequency is 2000KHz
- ★ Status indicator LED can be useful to show the USB connection, and working status by flashing.
- ★ 8 general-purpose input,4 output
- ★ all IO-port isolation, interference, stable performance
- ★ Full support for USB hot-swappable, the card is Monitoring USB connection status at any time.
- ★ Support spindle PWM speed control, or 0-10V analog voltage speed control

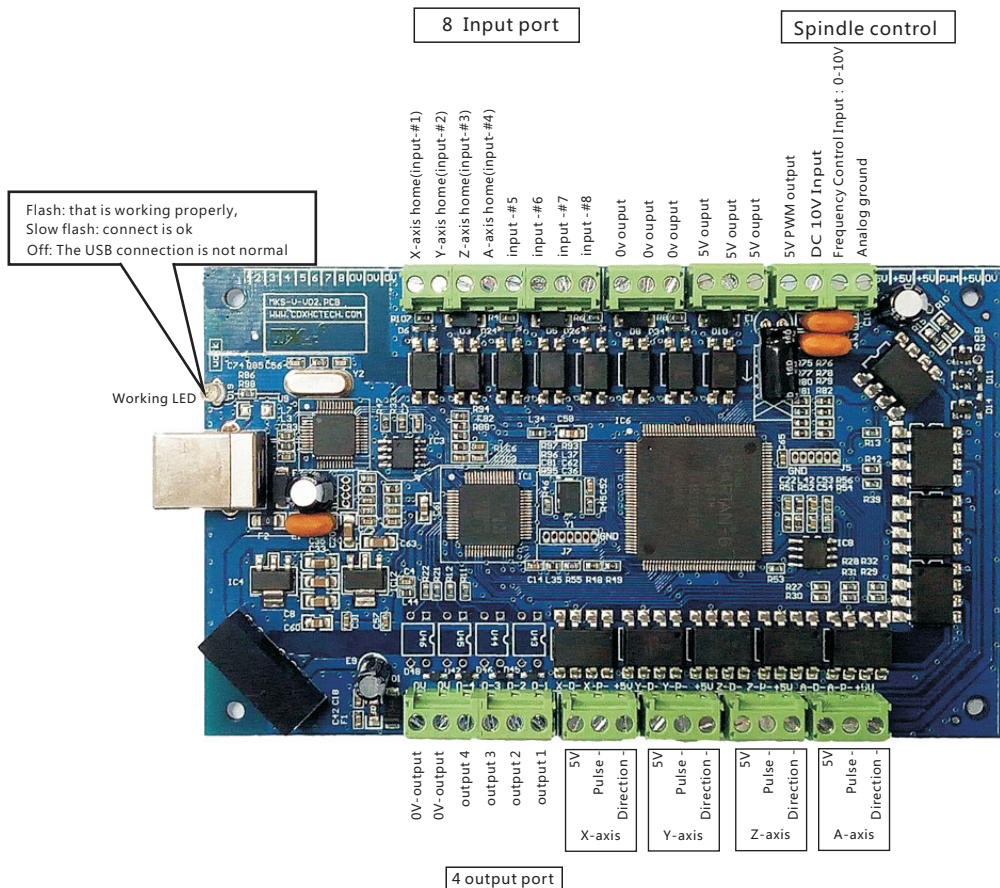
Simple connection description

Application Connection Diagram

USB Motion Control Card Application



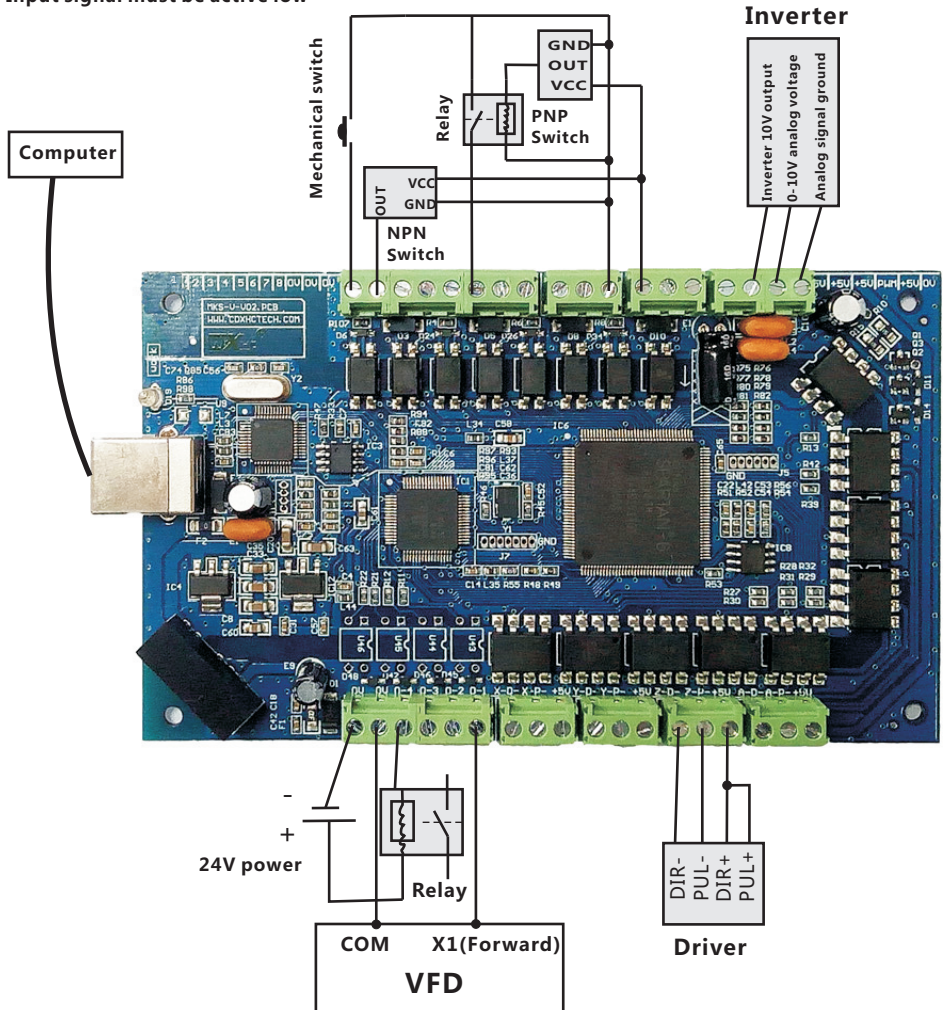
Signal Description



Wiring diagram shows

NOTE: If the inverter is turned on, the control card is not working properly because of interference caused by the inverter; Replace inverter.

Input IO Connect Mechanical switch or NPN (PNP) Photoelectric switch
Input signal must be active low



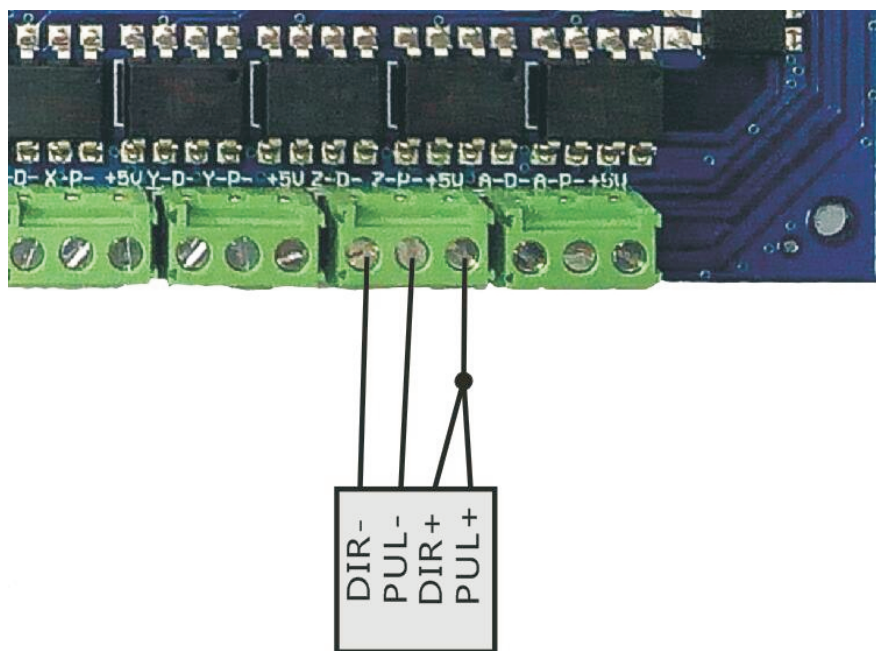
Electrical Characteristics

	Parameter Description	
axis output control:	Drive Current	Isolated open collector output; 5V, 20mA
	Drive	Pulse + direction output
	Output frequency	2000KHZ
	axes	MAX:4-axis
	Isolation Voltage	3.5KV
Spindle inverter output: 3 types of output modes	Analog voltage output	0—10V
	PWM output	5V,1KHZ, Duty;0-100%
	Pulse+direction output	5V,15HZ to 4KHZ
4 IO output	Drive Current	Isolation:50mA, 25V
	Isolation Voltage	3.5KV
8 IO input	Input Current	Isolated inputs, 5 mA, maximum voltage 25V
	Isolation Voltage	3.5KV
USB interface	Complies with USB2.0 standard	

- No.1: Install MACH3 software
- No.2: copy drive to the specified MACH3 directory
see the disc information:..\English Manual\usb card driver\readme.txt
- No.3: See wiring diagram, which will control the card connection correctly
- No.4: Connect the control card and computer with the USB line.

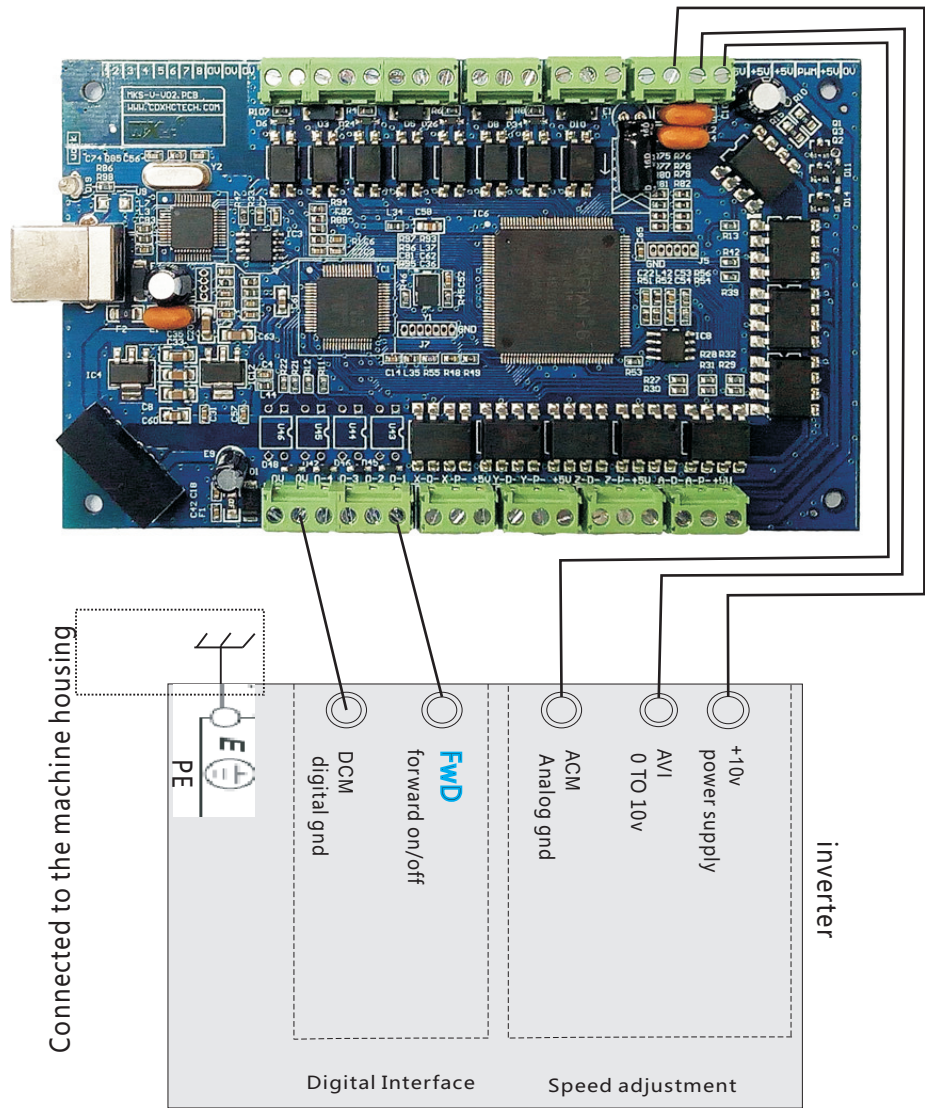
To complete the above steps, you can open the MACH3 software, and use.

NO.1 : Drive Interface : Support servo or stepping drive

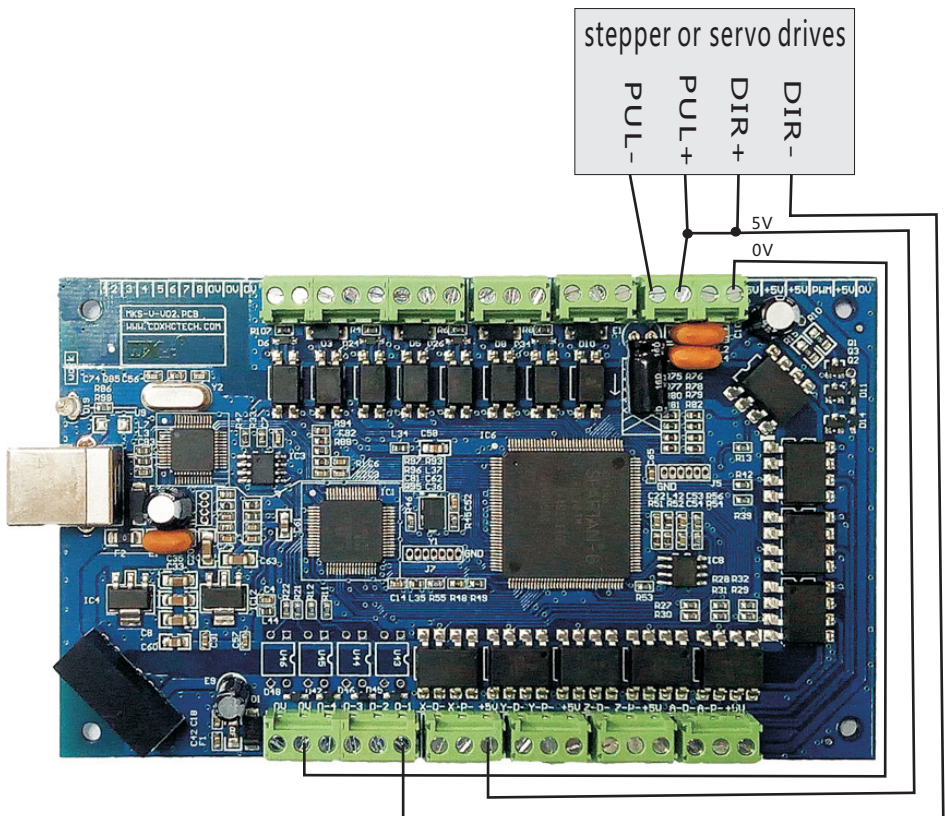


Stepper or servo drives

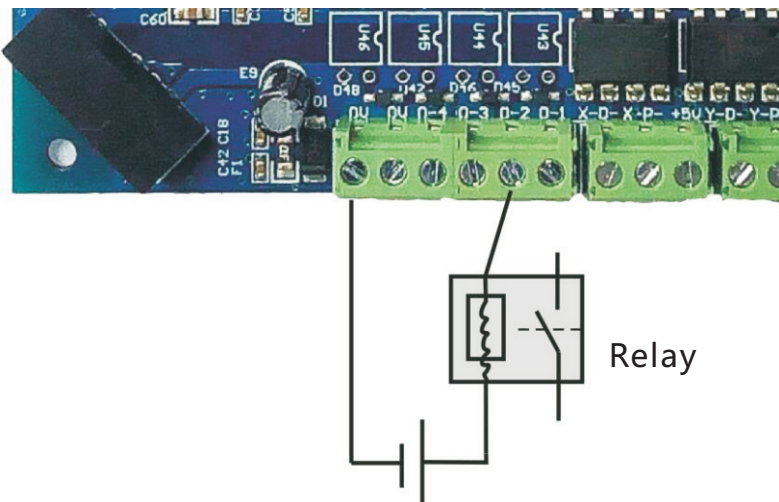
NO.2 : Inverter Interface



NO.3: Spindle connected stepper or servo drives

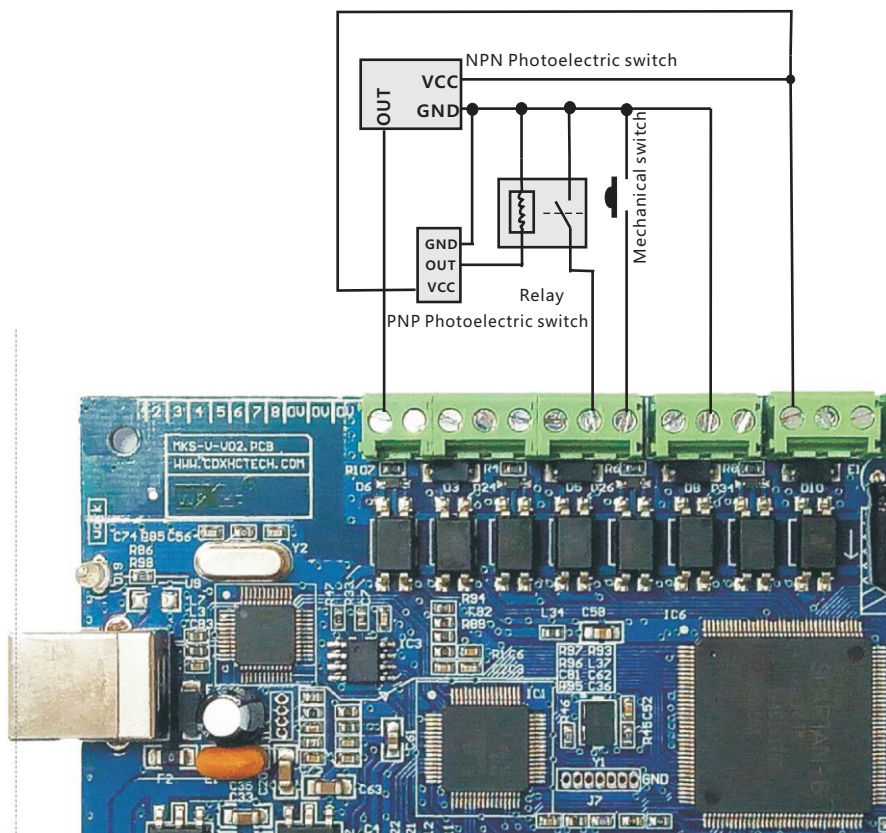


NO.4 : Relay Interface : OUT1 to OUT4 Relay Interface



Output active low, 24v\ 50 mA

NO.5 : input Interface : 8 input port;In1 to In8.Active Low





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