

Simple Switch Control Setting Guide

You may control the VFD to drive the motor forward/reverse/stop running via remote switch(s) by following steps:

Step 1. Find the control terminal by opening front Panel



Fig.1 Open the front panel, find the analog input (10V, AI1, GND) and digital input terminals (DI1, DI2... DI5)

1) Wiring of AI1 terminals

Weak analog voltage signals are easy to suffer external interference, and therefore the shielded cable must be used and the cable length must be less than 20 m, as shown in following figure.

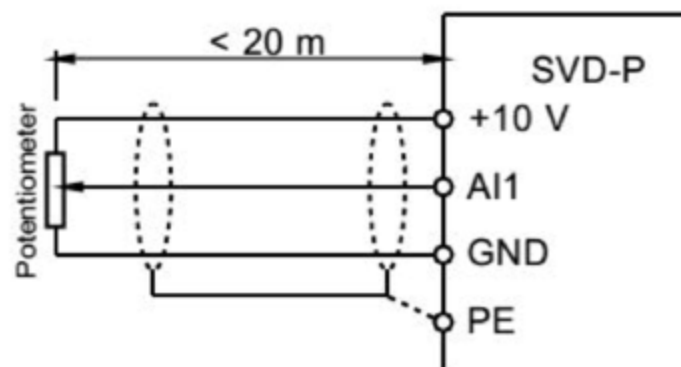


Figure 2 Wiring of AI terminals

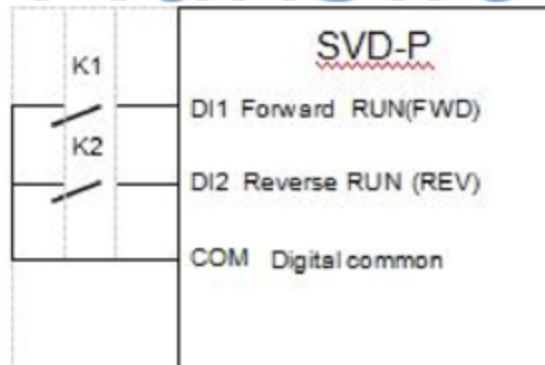
2) Fig2.b is a typical Potentiometer which as 3pin, pin1 for the ground, pin2 for the

variable voltage output, pin3 connect to voltage reference, recommended max resistant is 10Kohm, potentiometer of a wide range of 10Kohm ~50K ohm value can be acceptable.



Fig.2.b A typical potentiometer of 10Kohm

3) Recommend to connect the 2 normal open(N.O.)button switch to the control terminals as follow



Wiring diagram 4

If Reverse run not needed, Button 2 could be omitted.

Step 3. Set the function code as follow:

3.0 Select AI1 (The Potentiometer) as frequency setting source
 P0-03 = 2, select AI1 as main frequency source

3.1. Select control source
 P0-02=1 to select control terminals as running instruction source .

3.2. Define control terminal logic
 P4.00 = 1 DI1 used as Forward run control terminal

P4.01= 2 DI2 used as Reverse run control terminal

Some parameters have been default, just check and revise if necessary.

3.3. Select operating mode

P4-11 = 0 2-line control mode #1

this value have been set as default, just check and revise if necessary

Below logic you can achieve by above wiring and setting

DI1 Button 1 (K1)	DI2 Button 2 (K2)	Status
Close	Open	Forward Run
Open	Close	Reverse Run
Open	Open	STOP
Close	Close	STOP

Tab.1 Control logic

when only K1 is ON, the AC drive instructs forward rotation. When only K2 is ON, the AC drive instructs reverse rotation. When K1 and K2 are ON or OFF simultaneously, the AC drive stops.

More complete control logic can be implemented by three line control , see 3 line control setting guide for detail

Hopefully helps , feel free to contact us if anything else we can help .

Enjoy!