

MTPG2

Single axis stepper motor controller
instruction manual

WWW.SAHIBS

Summary

This manual is use to install debugging ,data setting ,please learn the document before using the controller

1.1 Feature

Size : 72x72mm

Use of high-performance micro controller work

Can adapt to contact switch hall switch

Photoelectric switch proximity switch

6 bit display, One segment value, 5 bit pulse value

Anti-interference ability: IEC801 3 degree

1.2 User notice

Environment and protection

1. Humidity $\leq 85\%$ temperature: $\leq 0-50$ °C
2. Notice the Strong shock and shock
3. Protect the dust and metal powder cant into the device
4. It is better use NPN type when the input is proximity switch and photoelectric switch
5. Keep the instrument away from the source of the signal
6. The out put controller current cant over the range

System Overhaul

Please off the power when the system is un normally display.

The operation staff should be trained.

Guarantee

We have 12 month guarantee

After 12 months, we will charge maintenance fees

Notice :

After power failure, it should be restarted after 10 seconds, otherwise the power error will be shown

Power supply : AC/DC 100-250V

Consume : $\leq 4w$

Power output : DC12V 200MA(use for sensor)

DC5V 100MA(use for Driver)

Dimension : 72x72x95mm

Weight : 230g

Output capacity : NPN 30V/200MA

contact rating : AC220V 3A. DC24V 3A

Impedance : 4.7k

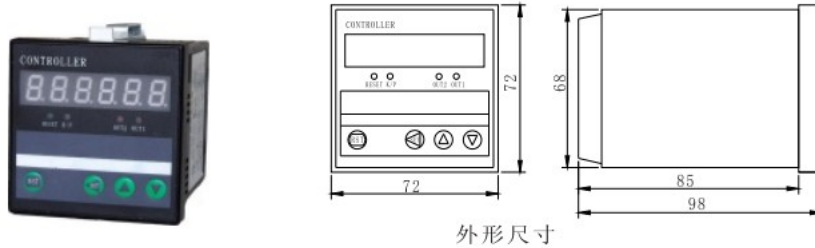
Working environment : humidity $\leq 85\%$ temperature: $\leq 0-50$ °C

Stock temperature : -20~85°C

Install type : snap-in

Product Brief

2.1 Appearance and Dimension



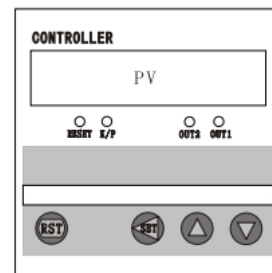
外形尺寸

2.2 Model and Function

MTPG2-5E2N	MTPG2-5E2N-1R
Programmable universal type Run by program segment	Programmable universal type With one set reply output Run by program segment
Two set NPN type Transistor open drain output PLS and DIR output suit to driver terminal name CP and DIR (or CW and CCW) Output setting:step,peed Movement direction Segment setting:0-15 Segment setting range:0-59999 Each Pulse output frequency and Movement direction setting Output frequency range:12-10khz(1 times),12-20khz(2 times),12-30khz(3 time) Octave setting:1-3times,	Direction setting : 0 No pulse output 1 output pulse Forward motion 2 output pulse Backward motion Multiple input function terminals K/P terminal : connect +12v Reset terminal:input signal,controller reset to first segment CP1 and CP2 is multi-function:depend on the use

3.1 Panel Description

No.	panel	description
1	pv	display
2	reset	Reset input signal
3	K/P	Run/stop indicator
4	OUT1	Output pulse indicator
5	OUT2	Output direction indicator
6	RST	Return
7	SET	Number movement
8	↑	Increase/Forward
9	↓	Decrease/Reversal



3.2 Parameter and Function

Push “set” in short time to First class parameter

MTPG2-5E2N,MTPG2-5E2N-1R			
Signal	Function description	Signal	Function description
PSLE	Data protect,it will display when set the PSLE-2,should put the operation pass word:8327	rfrmm	Direction and output frequency setting signal The N Before F:0 No pulse output(Timer function) 1 output pulse Forward motion 2 output pulse Backward motion NNNN after F is the frequency setting:0-9999hz Reply output control:(mtpg-5e2n-1r) Xfxxxx F is the reply stop Xtxxxx t is the reply output
SD---X	SD---O is first segment signal,it is for the first segment plus(working length) The max is 15 segment.if the segment is 5,can make the sd---5 to 00000,then will end the segment after 5		

Long time push “set”3 seconds.second class parameter

Signal	Function description
PSLE	Data protect ,set PSLE>1,should input password : 3688
rn---X	Rn---1 : Continuous movement mode Rn---2 : Single stage motion model CP2 The trigger control runs the set section in turn Rn---3 : Trigger section operation mode (Fixed length function) CP1 triggerDS---0 run,CP2 trigger sd---1 run Rn---4 : switch control model (no fixed length function) : CP1 and COP2 switch control (link 0V working or stop) Rn---5 : Positive and negative trigger operation mode (no fixed length function) : CP1 and CP2 trigger control the direction (reset control run or stop)
Ctrl-X	Ctrl-1 : output control mode CP and DIP type : PLS output pulse Corresponding to the CP,DIP corresponding to the DIR Ctrl-2 : output control mode CW and CCW type : PLS output pulse Corresponding to the CW,DIR corresponding to the CCW
Rst--X	Rst-0:electric Level reset,Active low level,link to 0V stop working and reset,off 0v start working Rst-1:Upper skip reset,reset signal develop from nothing Rst-2:down skip reset,reset signal From there to no
CP2-X	Cp-0:one segment finish,continue to next segment when the CP2 have signal input,if it is running CP2 input invalid Cp2-1:will turn to next segment when the CP2 have signal input
AC-XXX	Acceleration and deceleration settings:when move one step the frequency change XXXHZ,example:AC-005 mean frequency will change 5hz for each step,AC-OFF means no acceleration and deceleration
SC--XX	Memory mode:sc--on memory the power off,will start form the last power off point;SC--of means upper Power on reset,working from SD--0.
PLS-X	Frequency doubling:PLS--1:1 time output=set HZ*1 range 12-9999HZ PLS--2:2 time output=set HZ*2 range 12-20KHZ PLS--3:3 time output=set HZ*3 range 12-30KHZ
PSLE-X	Password protect degree : PSLE-0 : data no need protect,PSLE-1 only protect the second class parameter PSLE-2:protect both first and second class parameter
HF--FF	Restore factory settings pass word 3688

3.3 Display status and indicator status description

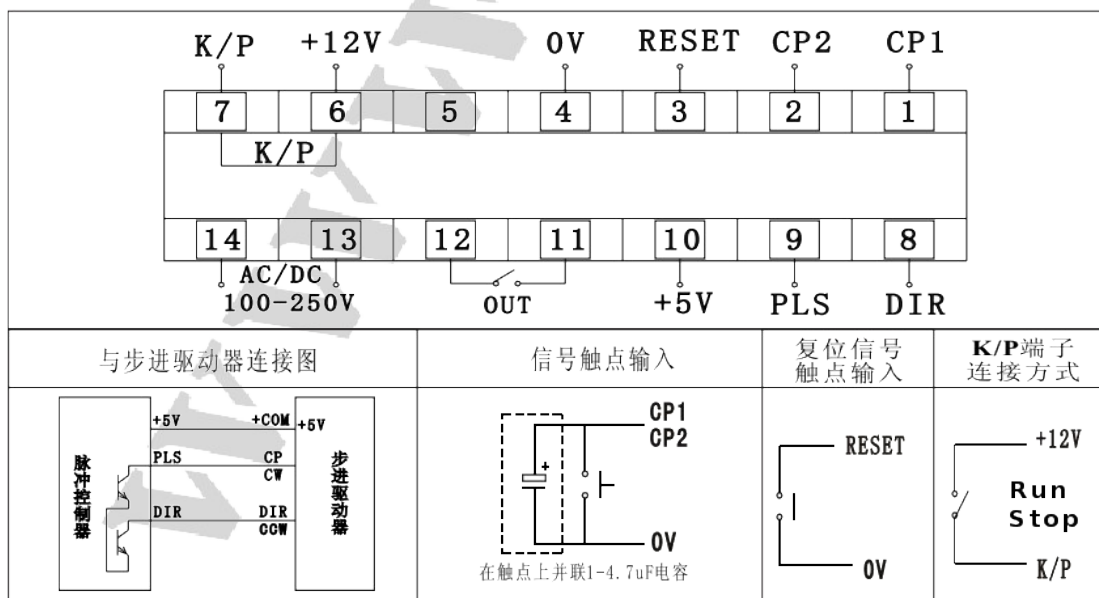
3.3.1 Display status description

Err-PA parameter error, Err-PA, should reset the parameter
 Display mode: x.xxxxx the first set display the working status or the working segment (P, 0-9, A-F T total 17 type) the five set after the point is the Pulse number range: 0-59999
 If display 1.01050 means at the segment sd--1 and 1050 pulse
 If display P.XXXXX means stop working, should via the rest and 0v terminal then restart
 If the set model is rn--4 or rn--5 the display model is x.fxxxx the first x means working status or working direction, P, 0, 1, 2 total four number, after the point is output frequency 0-9999
 If display 1.f1000 means forward frequency is 1000x pulse hz
 If display P.XXXX means stop status, control via terminal

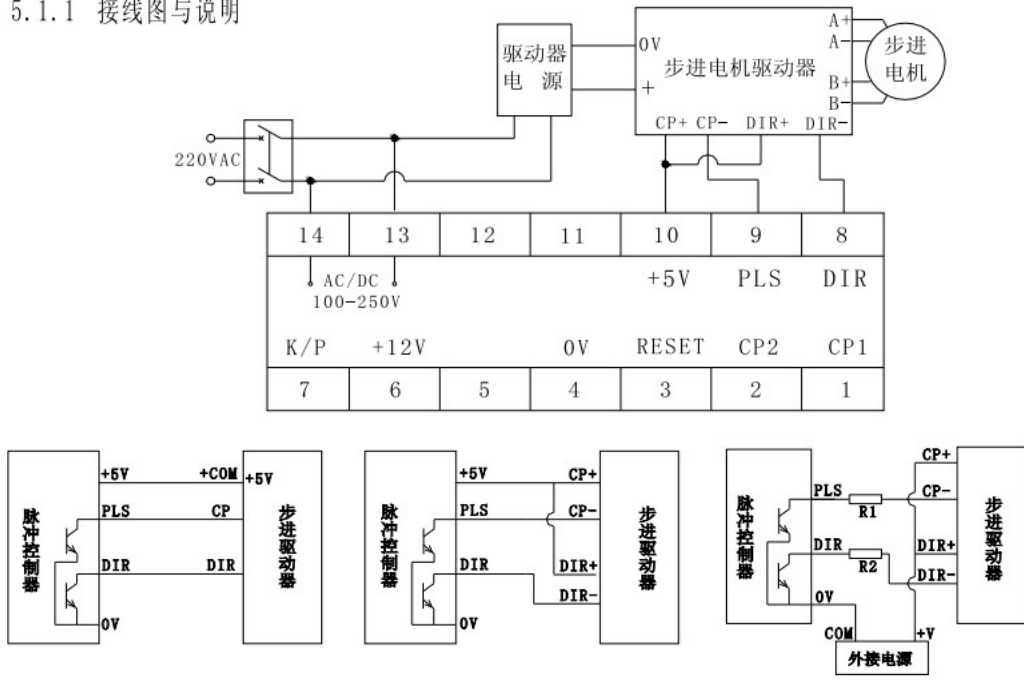
3.3.2 Indicator description

Reset: when it is red means the terminal of reset have single input K/P is working indicator, when it is light means K/P terminal have 12v power
 Out2: direction indicator, when it is light means Reversal working, if ctrl-X is ctrl-2, out2 flash means CCW REVERSAL pulse output
 OUT1 is pulse indicator: when the light is flash means PLS terminal is send the pulse, when ctrl-X is ctrl-2, out1 flash means CW forward output pulse.

4.1 Terminal Connection



5.1.1 接线图与说明



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