

FA6-Series Position Instrument User Manual

1、 CHARACTERISTICS

- ◎ standard outlooksize:48H*96W;
- ◎ Inset EEPROM, can protect the data while the power is off;
- ◎ 24V Ac/Dc power supply, 24v Ac/Dc static output;
- ◎ Bidirectional counter function
- ◎ Six function modes can be selectable;
- ◎ Self-form-track and customer' s parameter setting function
- ◎ Strong anti-jamming ability;

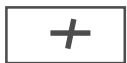
2、 KEY FUNCTION INSTRUCTION



Under the setting condition, the key is used to confirm the parameter. under the running condition , the key is used to set or look out the upper value and lower value



The key function depends on parameter C



The key is used to set parameter(while it is blinking, increase its value.



shift-key



LED indicator light, under the setting condition, the light is bright



LED indicator light, while calling the PRS register is effective or the form-track is enable.



Upper limitation indicator



Lower limitation indicator

3、 WIRING INSTRUCTION AND INPUT/OUTPUT FUNCTION DESCRIPTION

pillar1、 2 : 24V AC/DC power supply input

pillar4 (U1) : drive relay output, can connect 24AC/DC, load < 100mA. The sequence of operation refers to the diagram

pillar5 (U2) : drive relay output, can connect 24AC/DC, load < 100mA. The sequence of operation refers to the diagram.

pillar6 (U3) : drive relay output, can connect 24AC/DC, load < 100mA. The sequence of operation refers to the diagram.

pillar7 (U4) : drive relay output, can connect 24AC/DC, load < 100mA. The sequence of operation refers to the diagram.

pillar8、 9 (COM) : relay output public pillar

pillar14 (I2) : form-track input, the function depends on parameter A1

pillar15 (I1) : form-track input, the function depends on parameter A2

pillar16 (DC12V) : encoder +12V input

pillar17、 19 (0V) : encoder input ground

pillar 18(IN-A) : encoder B phase input

pillar 18(IN-B) : encoder B phase input

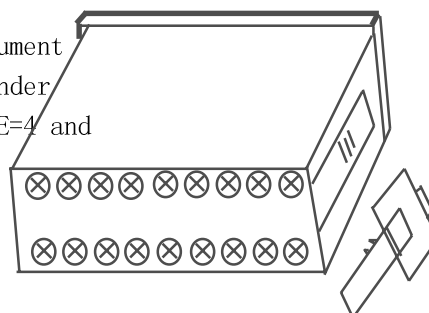
3、 RELIABLY INSTALL INSTRUMENT BRACKET METHOD :

4、 CAUTIONS :

1) In order to avoid causing the instrument malfunction, while the instrument is under the auto circulation condition, (mode E=4 and E=5) time must be shorter than one machine cycle)

2) In the non-auto-form-track mode, parameter A1 only can receive 0 or 1 and parameter A2 only can receive 2.



if it is set to other values, it will be correct to some value which approaches the definite value






After the instrument installing the carriage cabinet, using hands along the two sides of the instrument to push tightly the fastener A, then use a large size screwdriver to make an effort toward into push fasten A to a standard

5、FUNCTION AND OPERATION INSTUCTION

Initilizing the instrument accoring these sequences:

A : press the  mark and  key simultaneously about 1 second then display show

H 000

Indicator the instrument request input initalization programming ,using the  mark and  mark go input the password 235 and press  key end the operation.

B;initialization programming


1.display range setting

P 0	P value :
	0 display max 999999
	1 display max 99999.9
	2 dispaly max 9999.99
	3 display max 999.999
	4 dispaly max 99.9999


2.resolution (L):

L 0.00000	resolution is equal to a pulse(mm)* 10 ^P (P is a definite value)
	P ∈ (0-5)
	L value 0.00000-0.99999

3.clean function

C 0	C value: (define  function)
	0 function forbit
	1 clean &reset
	2 calling EEPROM pre-set- ting value

4.function mode:

E 0	E value:(define panel function)
	0 lock  key to set U&F function
	1 activate U、F and form-track functions
	2 function is similar with mode 2,output can refer to diagram
	3 output is similar as mode 2,non form-track function
	4 output auto circulate,referring to the diagram,non form track
	5 output auto circulate ,the lower limiation is invalid,refer- ring to the diagram ,non form-track function

5.timing setting :

E 0.000	the setting range is 0.001 second to 9.999 second caution:only in the mode 4 and mode 5,it is suitable,the effective range can refer to the diagram
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6.deviation value

UL 0000	lower limiation deviation value
FL 0000	upper limiation deviation value

7. input function:

A1 0	<p>A1 value : (define I2 input function) 0 continuously input the EEPROM initialization to the counter. 1 intermptent input the EEPROM initialization to the counter 2 form-track the lower value (while press I2 key, the current value will be copied to lower value)</p>
A2 0	<p>A2 value : (define I1 input function) 0 continuously input the EEPROM initialization to the counter. 1 form-track upper value, (while press I1 key, the current value will be copied to upper value) 2 the form-track function is invalid</p>

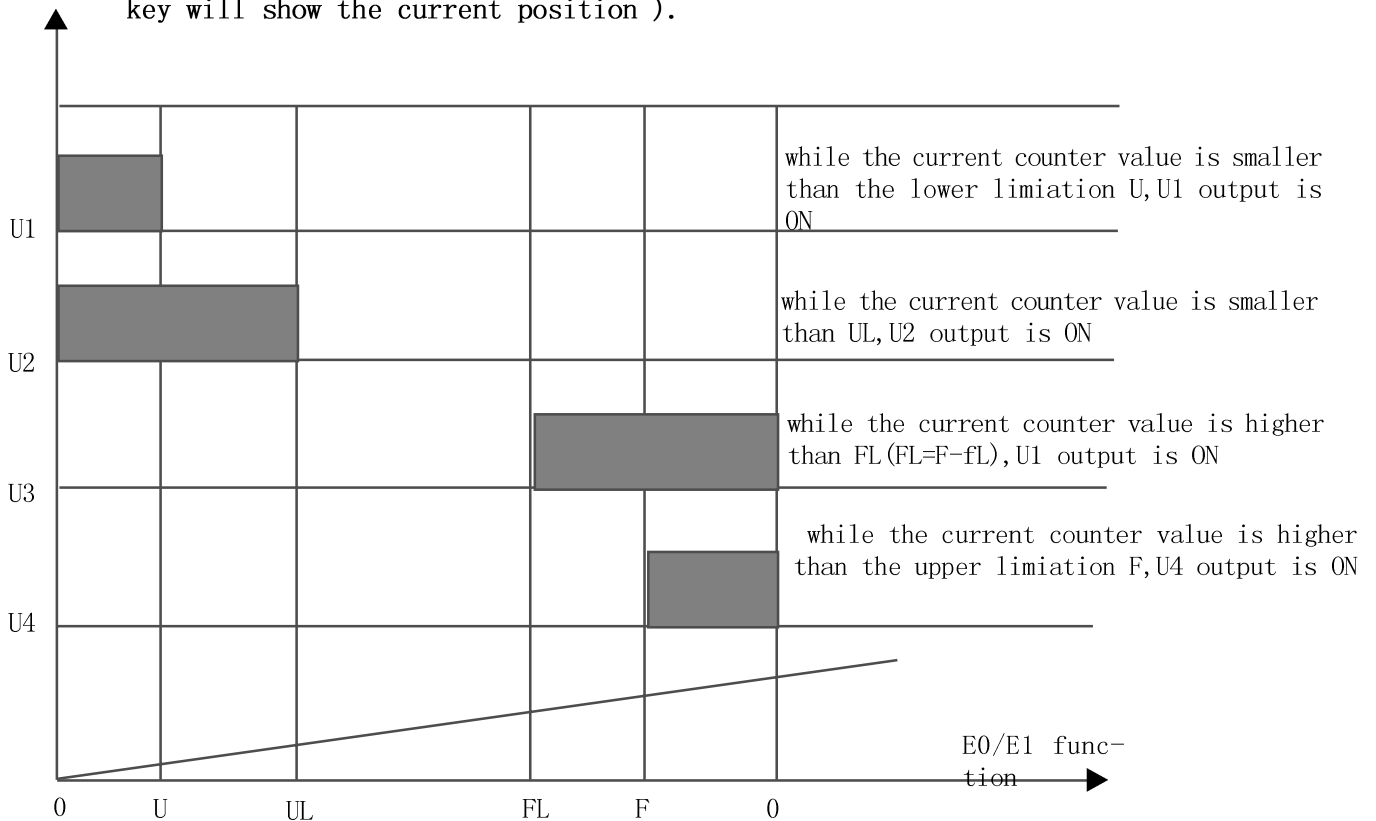
8. pre-setting value

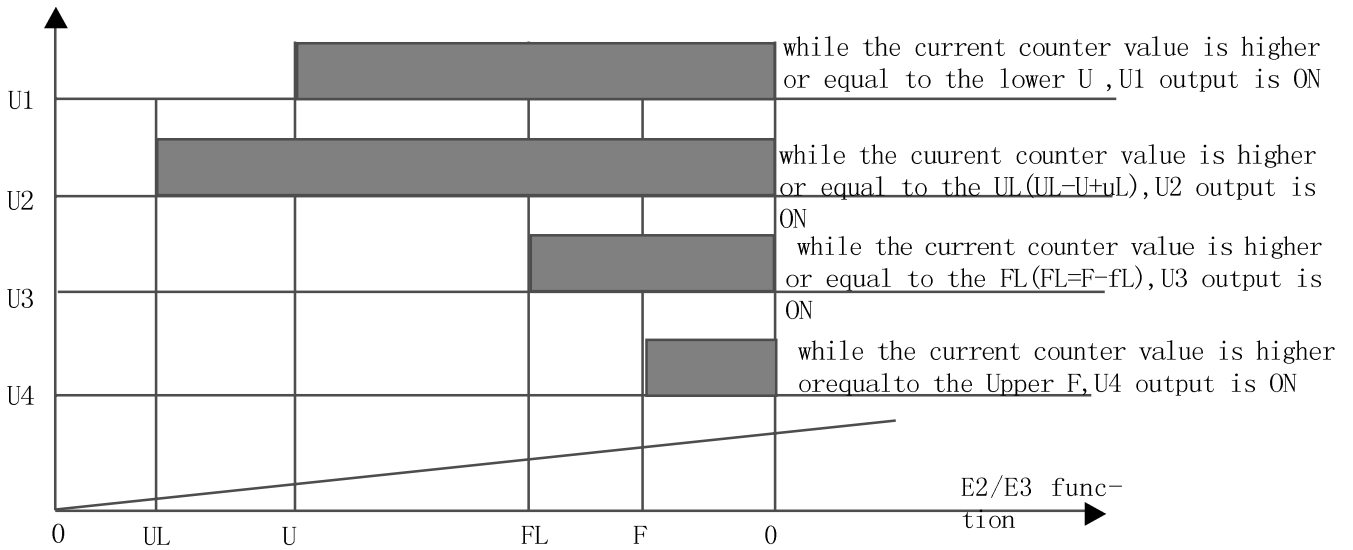
b 000000

5. FUNCTION PATTERN GRAPHIC INSTRUCTION

While E=0, the output mode refer to the graphic .The enter key is lock, the keyboard only can read the pre-setting value (first press it will shou U value second press it will show F value third press it the ENTER will show the current position).

While E=1, the output mode refer to the graphic , the ENTER key' s function is activated and the custon can set the U value and F value (first press the U value will be show and can be changed, second press will show F value and can be changed, third press the ENTER key will show the current position).





While E=4, output mode refer to the graphic, the control process is simial as E=3 and has function of circulation, the T value is depended on the patameter \bar{t} but non form-track function

