

Normally, A.810 will appears when firstly power on, please use FA008 to clear it.

8.4.7 Absolute value encoder Setup (initialization) (FA008)

Please refer to the following contents besides the operation steps

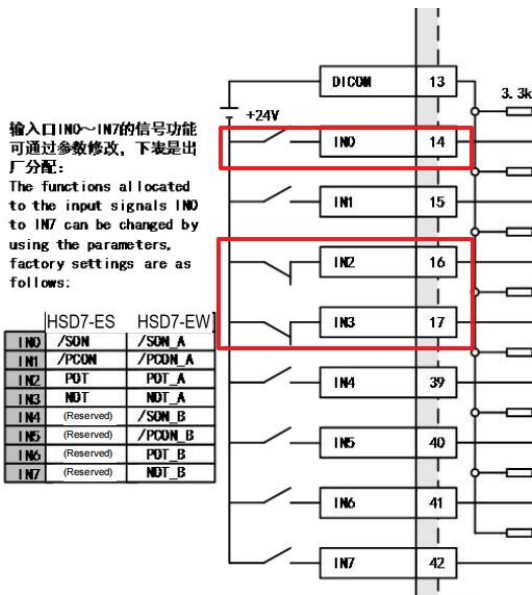
Steps	Display after operation	Operation key	Operation
1	FA000	F	Press the F key to select the auxiliary function.
2	FA008	▲ ▼	UP or DOWN key display "FA008".
3	PGCL1	S	Press S key, and the display content is as shown in the left figure, and "PGCL1" is displayed.
4	PGCL5	▲	Press and hold the UP key until PGCL5 is displayed.
5	donE	F	Press F key to start setting (initializing) the absolute value encoder. "donE" flashes for about 1 second after the setting (initialization) is completed.
6	PGCL5	-	Return to the display of "PGCL5" after "donE" is displayed.
7	FA008	S	Press the S key again to return to the display of "FA008".

Then "Pnt" will appears, it means that the driver is in FWD/REV forbidden status, so servo on not works.

There're two ways:

1. By parameters, set bit3 of PA50A=8, set bit0 of PA50B=8, it means, PA50A=8xxx; PA50B=xxx8. Then restart. In this way, "bb" will appears (For EtherCAT model, "int" appears). And then set PA50A bit1=9, means PA50A=8x9x, Restart, Servo on will works.
2. By wires, please connect IN2 (pin16) and IN3(pin17) as below diagram, "bb" will appears. Then connect IN0 (Pin14), Servo on will works.

Note: For EtherCAT model, SVON can only be enabled by EtherCAT command.



3. Position control:

Set PA000=0010, pulse position mode,

PA20E and PA210 are the parameters for setting the electronic gear ratio, please refer to the Chapter 5.12 in user manual for details.

HCG2 to HSD7-E wires diagram as below:

