How to use Identification function in User program or App for KLS controller

The controller needs to be hooked to batteries,motor before operation.That is to say,it is not enough to connect only power supply(PWR=pin7) to batteries for Identification Angle operation.

1,First of all,you need to confirm if the motor has Hall sensors or encoder inside.

By default,KLS controller can support hall sensors type directly.If the encoder is Sin/Cosin speed sensor type in the motor,you may use our KLS-8080IPS controller to match with this type of motor.Please inquire this controller with representative before ordering.

And you need to choose Speed sensor type in user program.

Speed sensor type:

2:Hall sensors; 3:Resolver 4:Sin/Cosin speed sensor or linear hall sensors

By default,it is set at 2.You do not have to choose speed sensor type again if your motor is based on hall sensors.

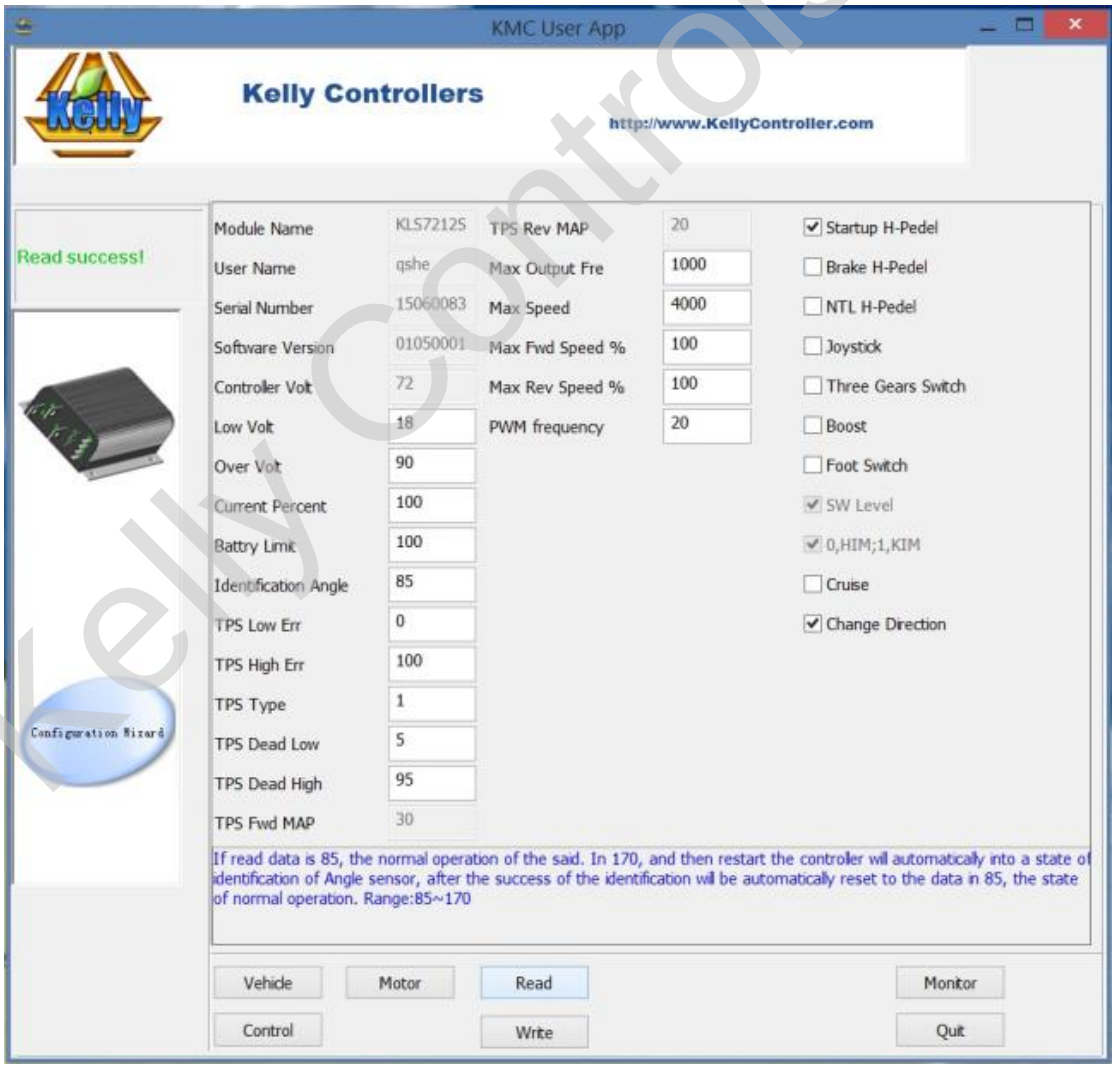
2,When the controller is reading the motor parameters,both LEDs are solid on.

That is to say,the LEDs will be on when the controller is doing Identification function.This is normal.(LEDs are only available on KLS-S model now).

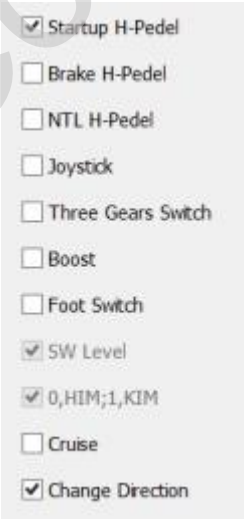
Here is the steps to identify hall sensors on KLS controller.

1,Please connect the controller to user program by USB cable or Z-TEK USB cable.Please turn on the power supply for the controller between pin7 and ground.

2,Please double click the Kelly ACuser program for KLS controller in Tablet or Computer.Please click Read button in the user program.You will see the first picture.



If you can read 85 in Identification Angle item,that is to say,the system is stable and normal.The controller is ready to be Identified.Please fill 170 in Identification Angle item in user program.Then please click Write button in user program.Please wait a few seconds before restart the power supply.You will see some info on Monitor screen after power supply is reset.If you see Reset error on the Monitor screen,that is to say,the auto_Identify is finished.You can see 85 in the Identification Angle item again.And the controller will blink error code.This is normal.Please reset the power supply again.Then everything will be fine.The motor is ready to be drived the controller.If the direction is not what you expected,please don't do Identification angle again.You just need to choose Change Direction in the first picture.Please click Write button and wait a few seconds.Please reset the power supply again.Then the motor will run on the expected direction.



3,Note:You can not restart the power supply if you do not see any information in Monitor screen in the user program after doing the Identification function.

4,When you got a motor with Sin/Cosin speed sensors,you just need to choose 4 in the speed sensor type.And the Identification angle operations and steps are exact the same.

Note:Identification Angle value:85 or 170,nothing else.

Usually the Identification operation will take about 2 minters,please do not do anything before the identification is finished.If the Identification operation takes 5 minters above,please try to write 85 instead and write it into the controller.Please reset the power supply again and try to do the identification angle operation.

The most important thing is you may not keep 170 in identification angle value when you want to reset the power supply.In other words,the idenfitication angle value can not be at 170 before power supply is on.It should be at 85.