

AXBB-E and Diode laser connections

I have successfully connected a chinese 15w laser to my AXBB-E and working with the laser plugin in uccnc .

Now my laser driver has two connectors
connector 1 = 3 pin + / - / pwn
connector 2 = 2 pin ttl + / ttl -

the solid state relays i am using are 861SSR115-DD

- 1: pin 17 axbb-e to TTL positive (+) on laser
- 2: 5v ground axbb-e to TTL ground (-) on laser
- 3: i chose pin 8 port 1 on abb-e to the ground (-) relay input
- 4: 24v + axbb-e to positive (+) on relay input
- 5: external 12v 10amp psu ground (-) to ground (-) on laser
- 6: external 12v psu 10amp positive (+) to load on relay
- 7: positive (+) on relay out to the positive (+) on the laser

In uccnc i created a new profile and called it laser that way you can have a setup and it will not start your spindle by allowing you to allocate a different pin for the m3 cycle start .

once you set it up input pin 17 for the laser
and the m3 to call pin 8 port 2 on cycle start to trigger the relay.

Also set i the min - max power 10 and 255.

now you will have 2 profiles so i created new desktop icons for uccnc to either call the default or laser depending on what i am doing.

To do that right click the uncc icon on your desktop and properties
now just edit the target string C:/UCCNC/UCCNC.exe /p aaaaa /s xxxxxx

where aaaaa is the profile mine being laser and xxx being your axbb-e serial

change to what your laser profile is called and save. then rename the icon to what ever you want i just called it uccnc-laser.

I then sent a new shortcut from uccn to the desktop and called it uccnc-default.

now i can wich profile i want from the start so i dont fook up.