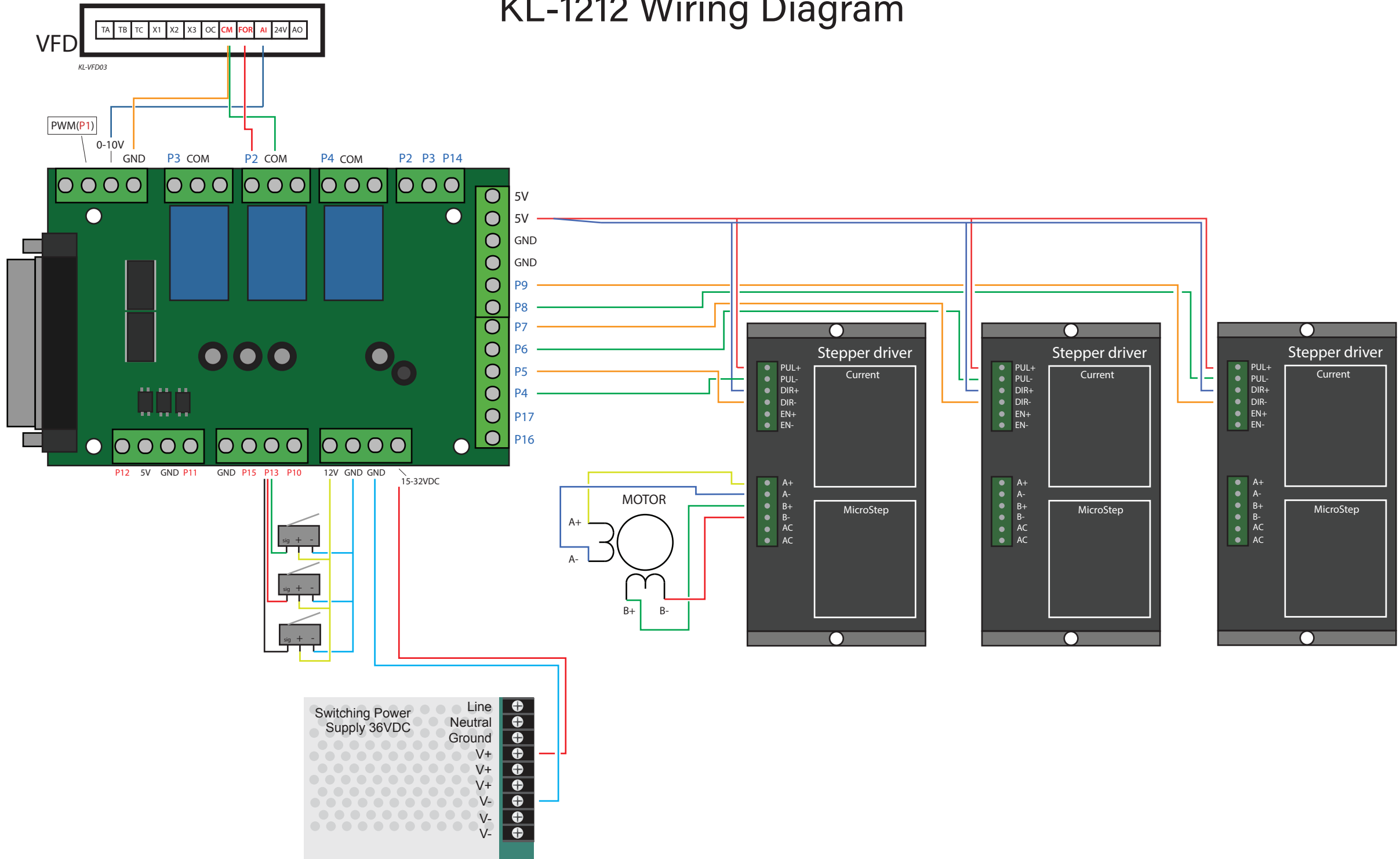


# KL-1212 Wiring Diagram



Engine Configuration... Ports &amp; Pins

Port Setup and Axis Selection | Motor Outputs | Input Signals | Output Signals | Encoder/MPG's | Spindle Setup | Mill Options

Signal	Enabled	Step Pin#	Dir Pin#	Dir LowActi...	Step Low A...	Step Port	Dir Port
X Axis		4	5			1	1
Y Axis		6	7			1	1
Z Axis		8	9			1	1
A Axis		16	17			1	1
B Axis		0	0			0	0
C Axis		0	0			0	0
Spindle		1	0			1	1

OK

Cancel

Apply

Engine Configuration... Ports &amp; Pins

Port Setup and Axis Selection | Motor Outputs | Input Signals | Output Signals | Encoder/MPG's | Spindle Setup | Mill Options

Signal	Enabled	Port #	Pin Number	Active Low	Emulated	HotKey
X Home		1	11			0
Y ++		0	0			0
Y --		0	0			0
Y Home		1	12			0
Z ++		0	0			0
Z --		0	0			0
Z Home		1	13			0
A ++		0	0			0
A --		0	0			0

Pins 10-13 and 15 are inputs. Only these 5 pin numbers may be used on this screen

Automated Setup of Inputs

OK

Cancel

Apply

## Engine Configuration... Ports &amp; Pins

Port Setup and Axis Selection | Motor Outputs | Input Signals | Output Signals | Encoder/MPG's | Spindle Setup | Mill Options

Signal	Enabled	Port #	Pin Number	Active Low	Emulated	HotKey
Input #3		0	0			0
Input #4		0	0			0
Probe		0	0			0
Index		0	0			0
Limit Ovrd		0	0			0
EStop		1	10			0
THC On		0	0			0
THC Up		0	0			0
THC Down		0	0			0

Pins 10-13 and 15 are inputs. Only these 5 pin numbers may be used on this screen

Automated Setup of Inputs

OK

Cancel

Apply

## Engine Configuration... Ports &amp; Pins

Port Setup and Axis Selection | Motor Outputs | Input Signals | Output Signals | Encoder/MPG's | Spindle Setup | Mill Options

Signal	Enabled	Port #	Pin Number	Active Low
Enable1		1	14	
Enable2		0	0	
Enable3		0	0	
Enable4		0	0	
Enable5		0	0	
Enable6		0	0	
Output #1		0	0	
Output #2		1	2	
Output #3		1	3	
Output #4		0	0	

Pins 2 - 9 , 1, 14, 16, and 17 are output pins. No other pin numbers should be used.

OK

Cancel

Apply

## Engine Configuration... Ports &amp; Pins

Port Setup and Axis Selection

Motor Outputs

Input Signals

Output Signals

Encoder/MPG's

Spindle Setup

Mill Options

## Relay Control

 Disable Spindle RelaysClockwise (M3) Output # CCW (M4) Output # 

Output Signal #'s 1-6

## Flood Mist Control

 Disable Flood/Mist relays DelayMist M7 Output #  Flood M8 Output #  

Output Signal #'s 1-6

## ModBus Spindle - Use Step/Dir as well

 Enabled Reg   - 127Max ADC Count 

## Motor Control

 Use Spindle Motor Output PWM Control Step/Dir MotorPWMBase Freq. Minimum PWM  %

## General Parameters

CW Delay Spin UP  SecondsCCW Delay Spin UP  SecondsCW Delay Spin DOWN  SecondsCCW Delay Spin DOWN  Seconds Immediate Relay off before delay

## Special Functions

 Use Spindle Feedback in Sync Modes Closed Loop Spindle ControlP  I  D  Spindle Speed Averaging

## Special Options, Usually Off

 HotWire Heat for Jog Laser Mode. freq I Torch Volts Control Torch Auto Off

OK

Cancel

Apply