CNC4PC

Integration Solutions for CNC Projects

USER'S MANUAL VER. 1

C34KY-M BOARD
Rev. 1

FEBRARY, 2020
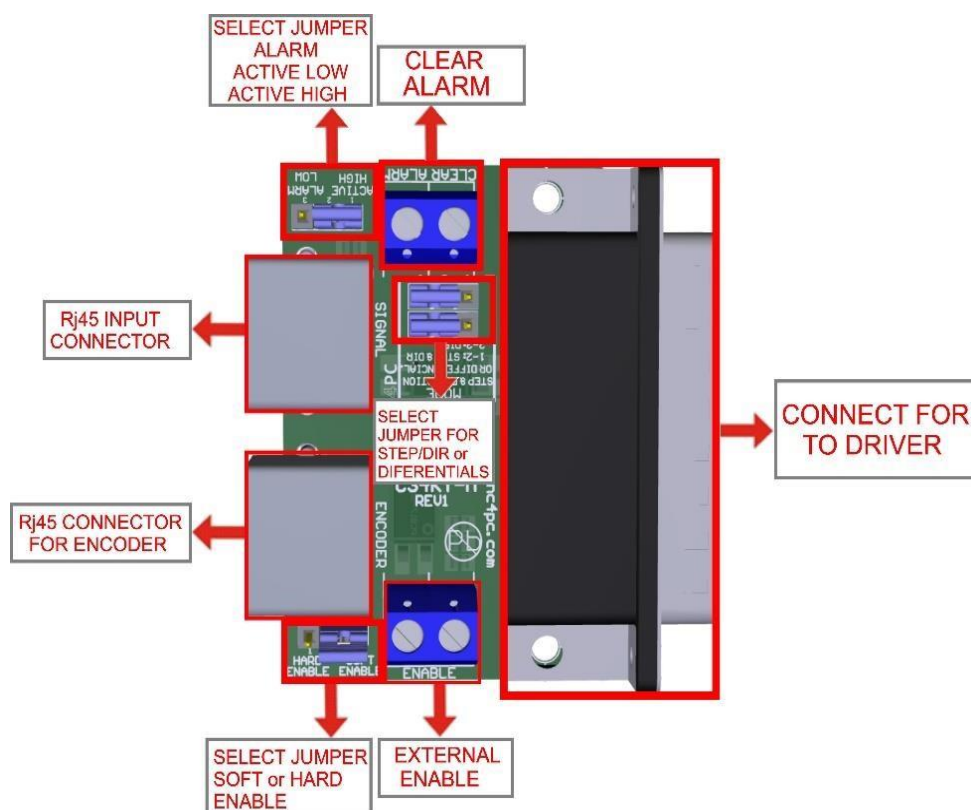
USER'S MANUAL

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1.0   OVERVIEW

This board interface is used for the connection between C82, C76, M16D, C35S y C74 and YAKO Servo Driver M Series.

2.0   FEATURES

- HDM44D connector for Connection of Driver.

- RJ45 Connector for Axis.

- Encoder Output.

- Select Jumper for Hard Enable or Soft Enable.

- Select Jumper alarm active Low or active High

- Select jumper for signal differentials.

- Terminals for external drive enable push button.

3.0   BOARD DESCRIPTION

SELECT JUMPER
ALARM
ACTIVE LOW
ACTIVE HIGH

CLEAR
ALARM

Rj45 INPUT
CONNECTOR

SELECT
JUMPER FOR
STEP/DIR or
DIFERENTIALS

CONNECT FOR
TO DRIVER

Rj45 CONNECTOR
FOR ENCODER
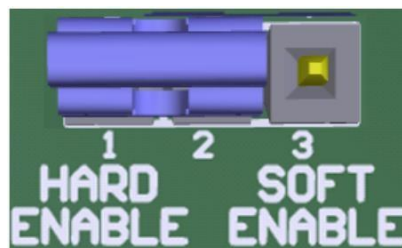
SELECT JUMPER
SOFT or HARD
ENABLE

EXTERNAL
ENABLE

4.0 JUMPER TO SELECT THE ENABLE

Use Software Enable to keep the driver active only while the system is active. Set of jumpers as shown in the image.
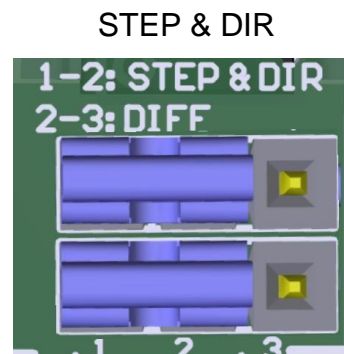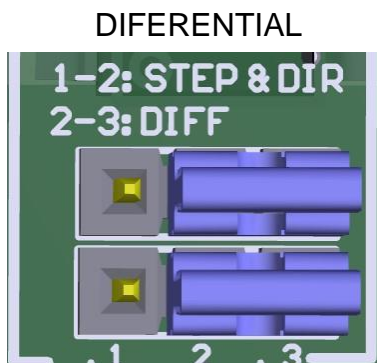
SOFT ENABLE
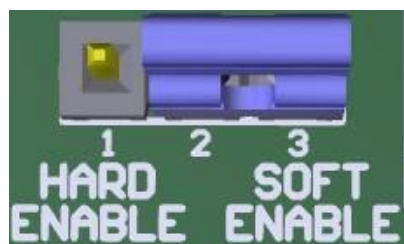
HARD ENABLE

 Use Hardware Enable to keep the driver enabled all the time. Set of jumpers as shown in the image.

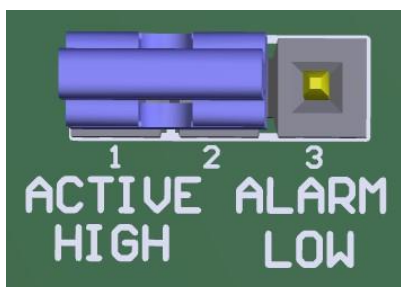## 5.0 JUMPER TO SELECT THE DIFFERENTIAL

If using Differential Signals, it is required to use the C74 connector:

DIFERENTIAL

STEP & DIR

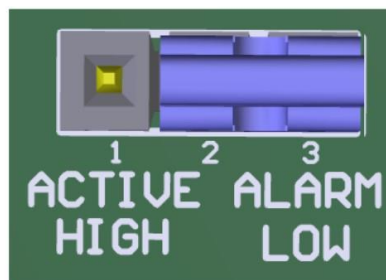## 6.0 JUMPER TO SELECT ACTIVE LOW OR ACTIVE HIGH
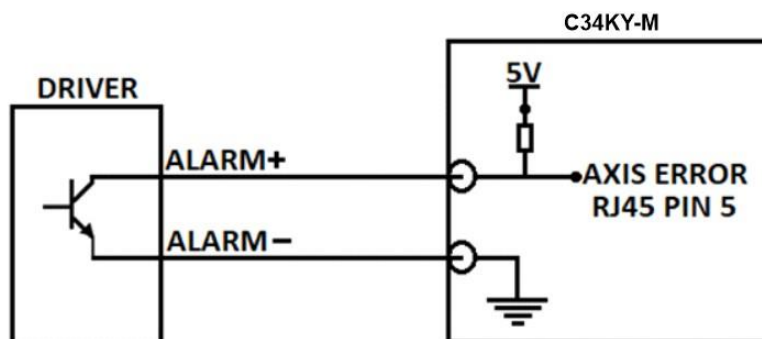
1-2: ACTIVE HIGH

2-3: ACTIVE LOW

7.0 ALARM TERMINAL

8.0　WIRING SAMPLE

8.1 Diagram of connection with input signals Step & Dir and C76.

If using HARD ENABLE close the contact to Enable the driver

1-2 HARD ENABLE

1-2: Step & Dir

SELECT JUMPER ALARM

ACTIVE LOW

CLEAR ALARM

C76

DRIVER FAULT SET ALL JUMPERS IN THE POSITION 1-2
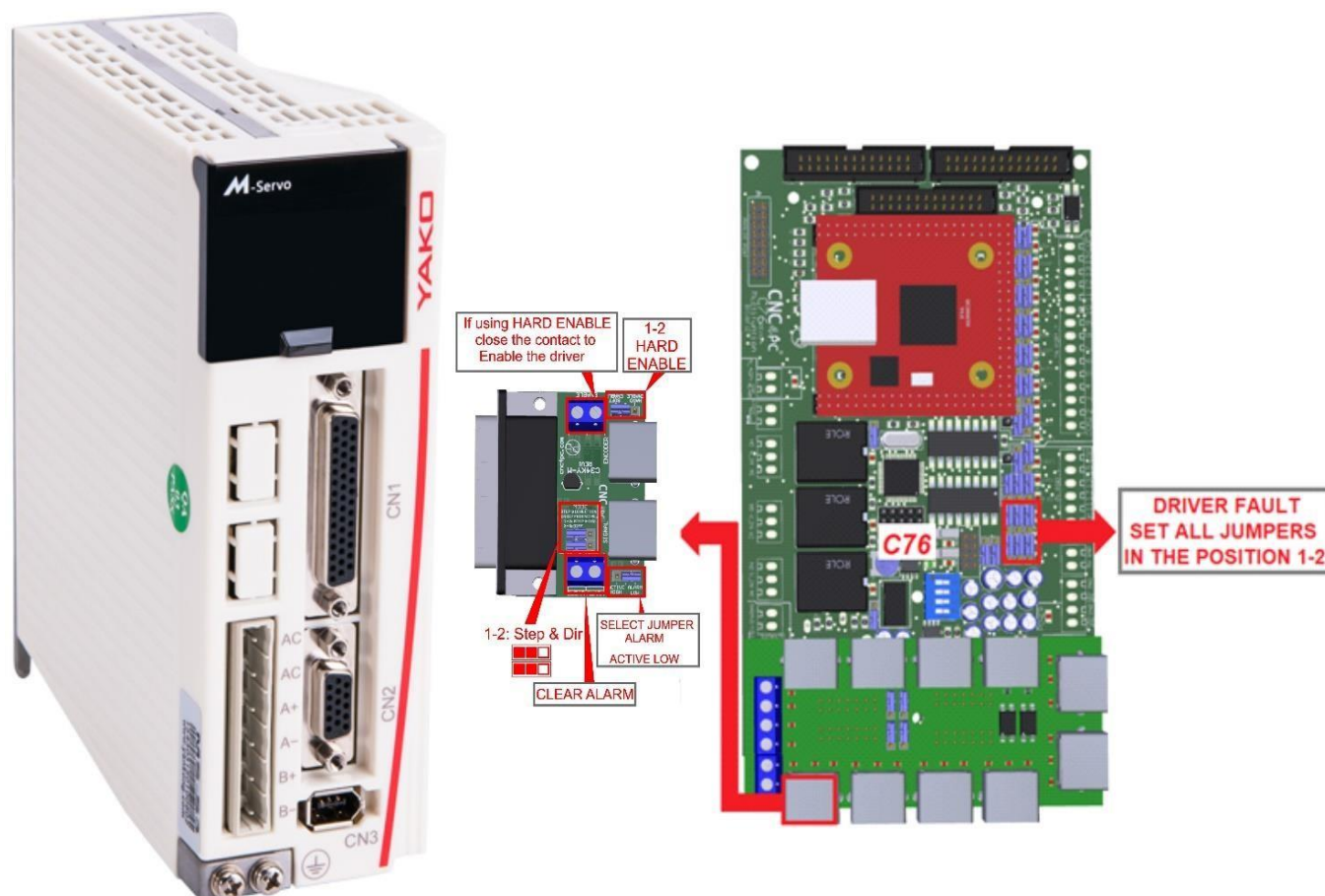
C34KY-M BOARD

8.2 Diagram of connection with input signals Differentials C74 and C76.

If using HARD ENABLE close the contact to Enable the driver

1-2
HARD ENABLE

C74

C76

DRIVER FAULT
SET ALL JUMPERS
IN THE POSITION 1-2

1-2: Step & Dir

SELECT JUMPER
ALARM

ACTIVE LOW

CLEAR ALARM
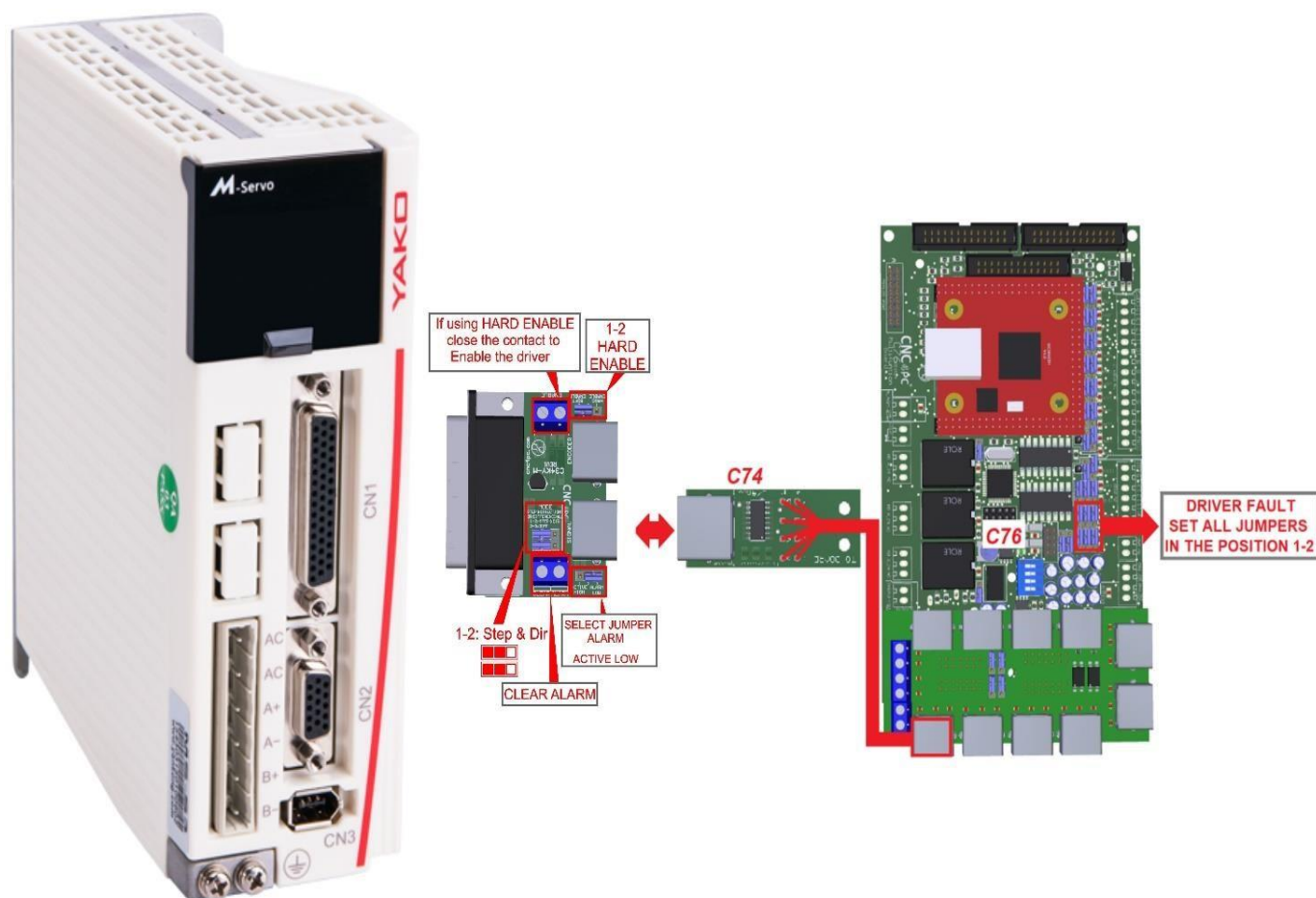
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9.0   PINOUT

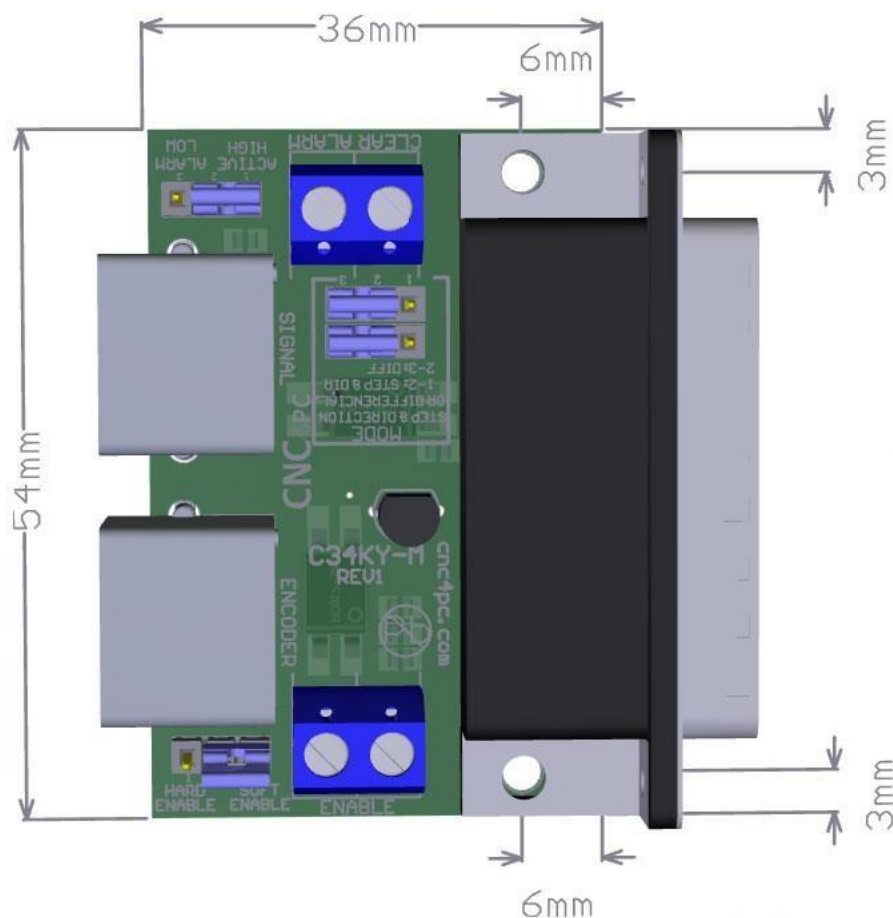| YAKO DRIVE AND C34KY-M CONNECTION		
HDM44D PIN	**FUNCTION**	**RJ45 PIN**
4	STEP-	1
3	STEP+	2
6	DIR-	3
8	GND	4
12	SOFT_EN	5
9	ALARM	5
5	DIR+	6
	24VDC	7
13	5VDC	8

Note:
* Servo ON and Alarm signals are related to the RJ45 pin 5 of the C34KY-M board, but they are not connected directly to this pin.

RJ45 for Encoder

HDM44D PIN	**RJ45 PIN**	**FUNCTION**
	1	GND
	2	NC
	3	NC
	4	NC
31	5	A-
16	6	A+
32	7	B-
18	8	B+

10.0 DIMENSION

All dimensions are in Millimeters.

DISCLAIMER

Use caution. CNC machines can be dangerous machines. Neither DUNCAN USA, LLC nor Arturo Duncan are liable for any accidents resulting from the improper use of these devices. This product is not a fail-safe device and it should not be used in life support systems or in other devices where its failure or possible erratic operation could cause property damage, bodily injury or loss of life.