CNC4PC C34SGDV Board User Manual

CNC4PC C34SGDV Board

Contents

OVERVIEW

This board interface is used for the connection between **C82**, **C76**, **M16D**, **C62 C86MASSO**, **C86ACORN** and the YASKAWA SGDV DRIVER

FEATURES

- DB50 connector for Driver Connection.
- RJ45 Connector for Axis.
- Encoder Output.
- Alarm terminal
- Select Jumper for Hard Enable or Soft Enable.
- Select jumper for signal differentials.
- Select Jumper active Low and active High
- Terminals for external drive enable push button.
- Power Terminal 24V

BOARD DESCRIPTION

UMPER 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.

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

HARD ENABLE
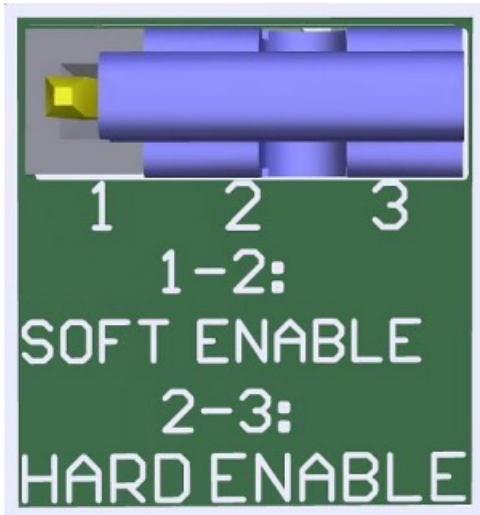
JUMPER TO SELECT THE DIFFERENTIAL

If working the inputs of STEP and DIR as differentials signals, you have to use the board, set jumper as shown in the image.
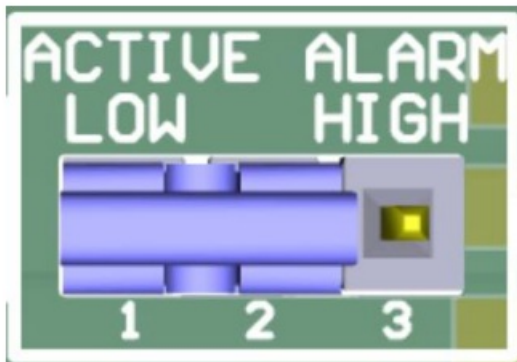
DIFERENTIAL
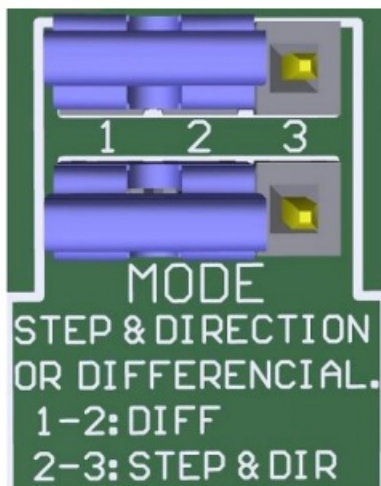
If not use the differential signal for STEP & DIR, set jumper as show in the image.
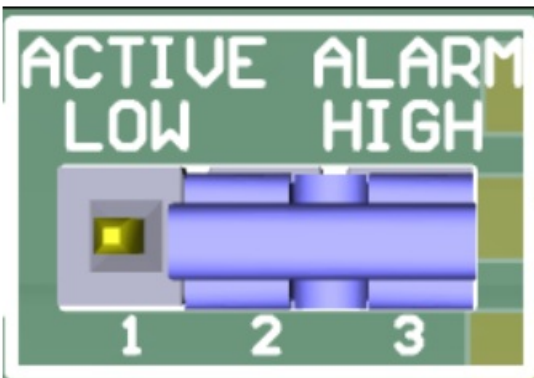
STEP & DIR
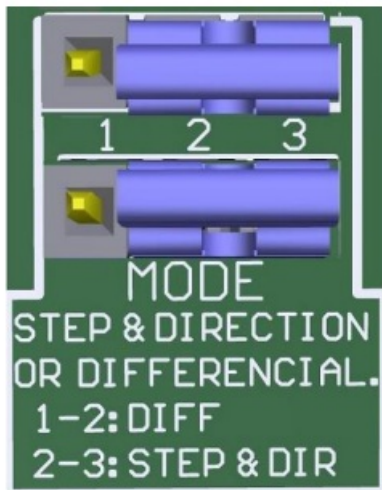
JUMPER TO SELECT ACTIVE LOW AND ACTIVE HIGH

1-2: ACTIVE LOW

2-3: ACTIVE HIGH

WIRING SAMPLE

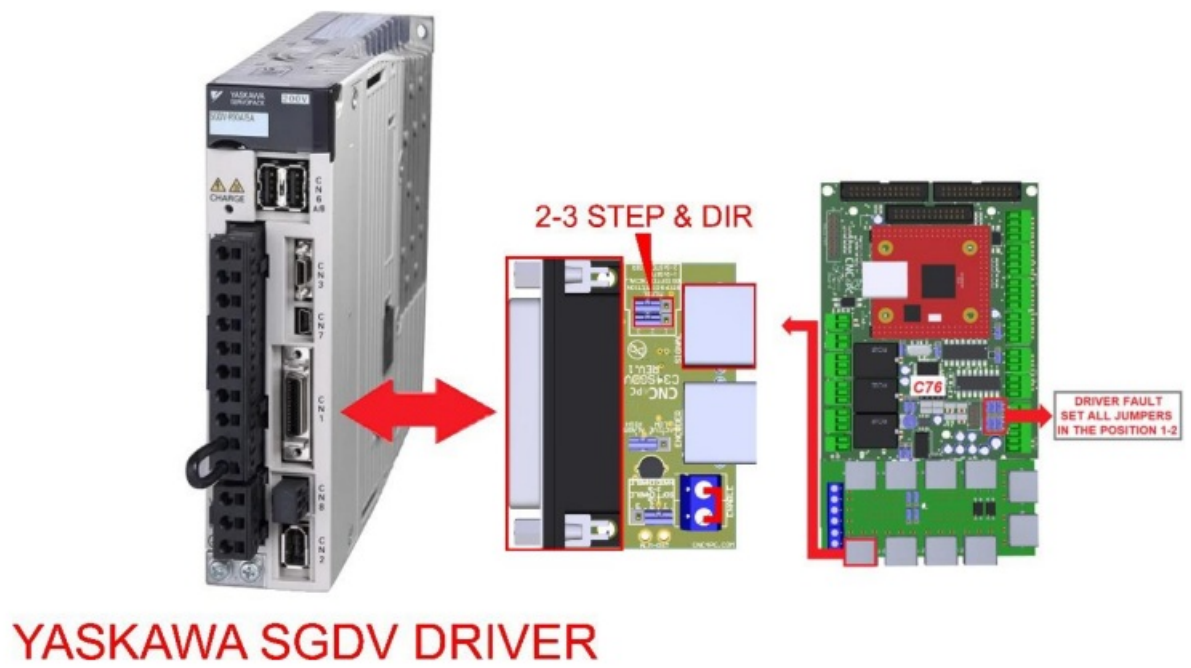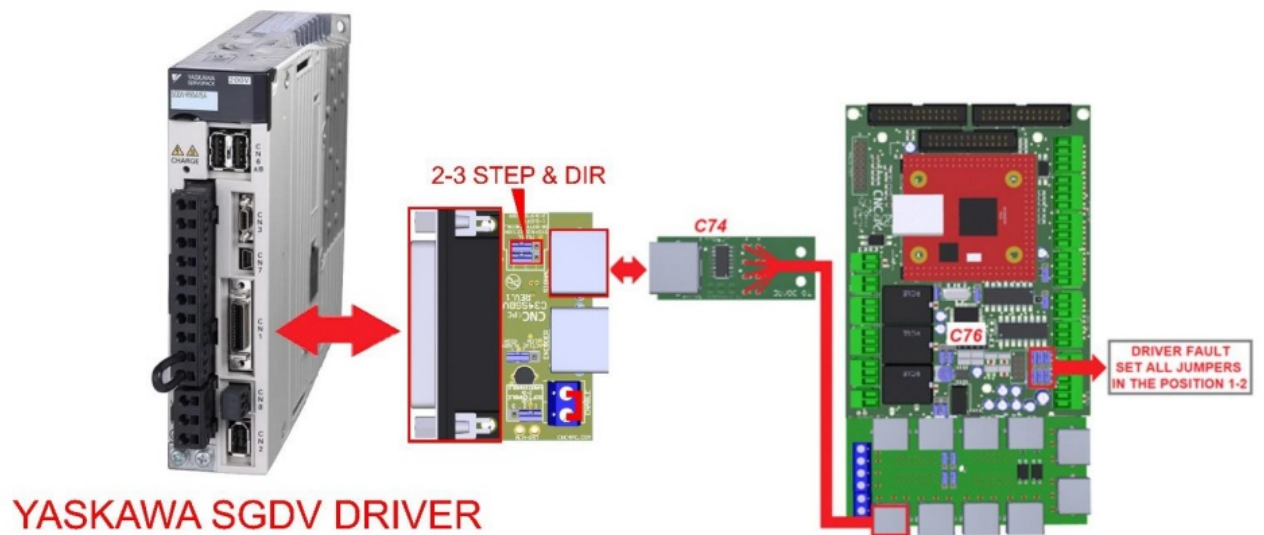**Diagram of connection with input signals Step & Dir and C76**

YASKAWA SGDV DRIVER

Diagram of connection with input signals Differentials C74 and C76.

YASKAWA SGDV DRIVER

PINOUT

| F SERIES SERVO DRIVE AND C34SGDV CONNECTION		
DB50 PIN	**FUNCTION**	**RJ45 PIN**
40	SOFF EN	5
47	24V	7
–	+ 5V	8
32	COM- / GND	4
31	ALARM *	5
12	DIR-	3
11	DIR+	6
8	STEP-	1
7	STEP+	2

Note:
* Servo ON and Alarm signals are related to the RJ45 pin 5 of the C34SGDV board, but they are not connected directly to this pin.

RJ45 for Encoder

DB50 PIN	**RJ45 PIN**	**FUNCTION**
–	1	GND
–	2	5VDC
20	3	I-
19	4	I+
34	5	A-
33	6	A+
36	7	B-
35	8	B+

DIMENSION
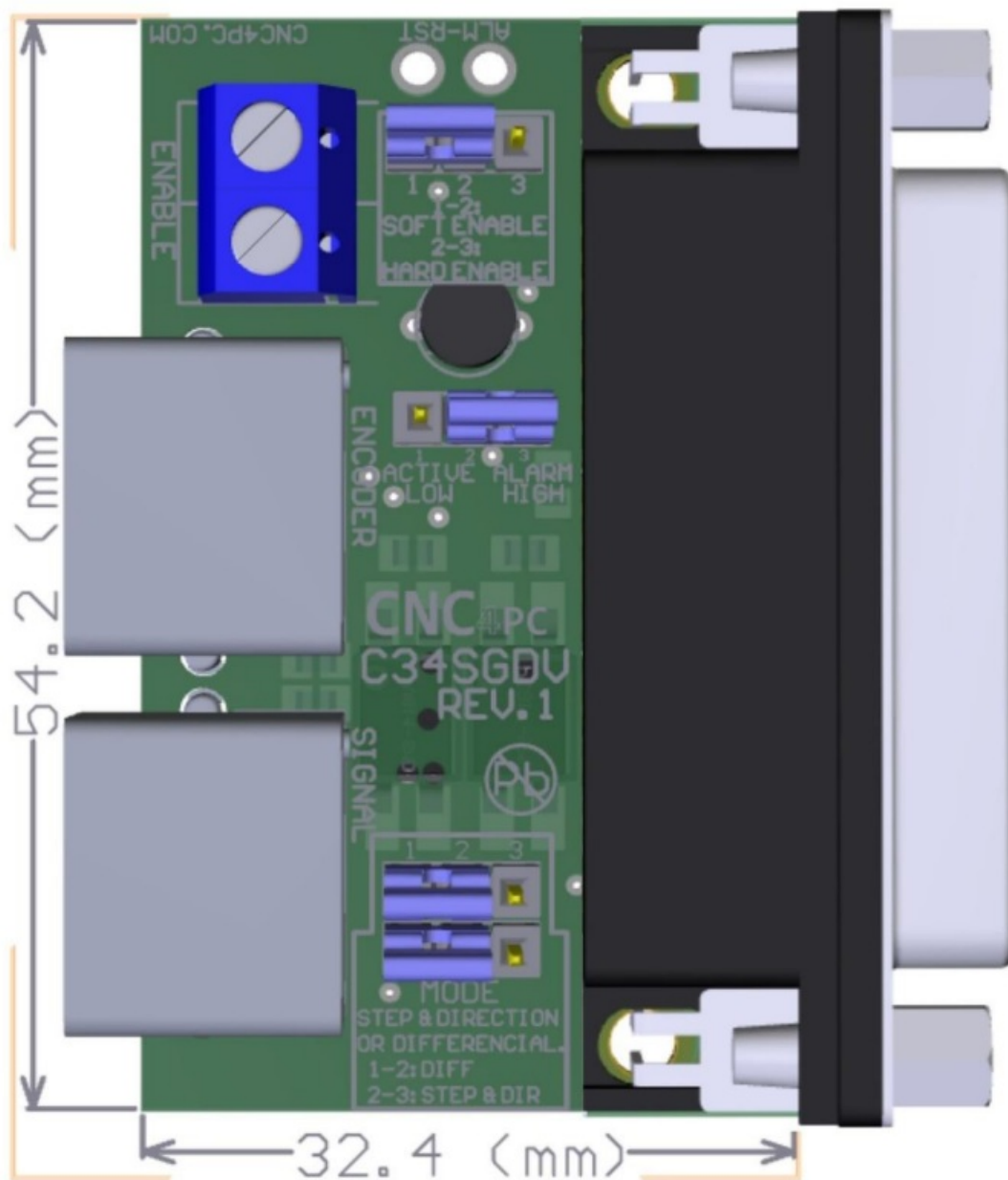
All dimensions are in Millimeters.

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.

Documents / Resources

CNC4PC C34SGDV Board [pdf] User Manual
C34SGDV Board, C34SGDV, Board

References

- **C62 - Dual Port Multifunction Board**
- **C76 - UC300 Multifunction Board.**
- **C82 Ethernet Smooth Stepper Breakout board**
- **C86 Connector Board for the MASSO Controller**
- **POKEYS MOTION MOTHER BOARD**

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