CNC4PC
Integration Solutions for CNC Projects

USER'S MANUAL VER.1

C74 – CONVERTER TO DIFFERENTIAL Rev. 1.1

JANUARY, 2017

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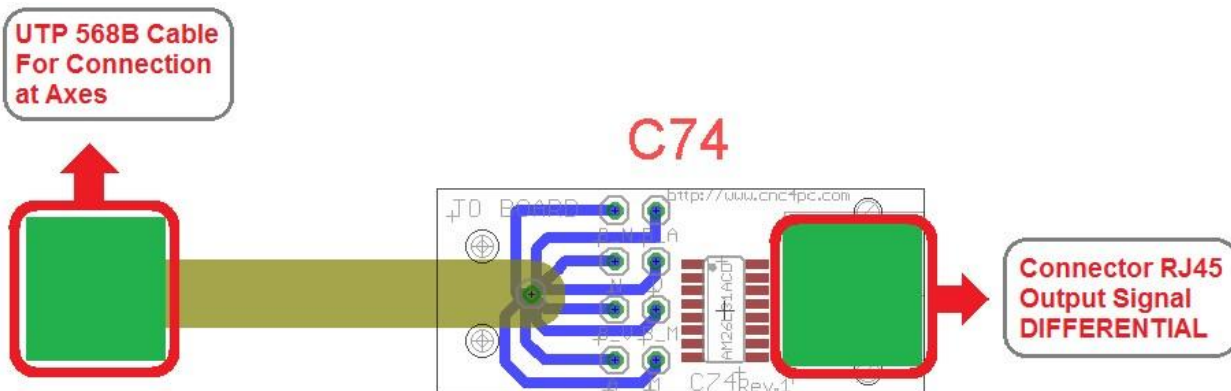
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1.0   OVERVIEW

This board converts the output signals (STEP and DIR) to differential.

2.0   FEATURES

- Converts output signal (STEP and DIR) to DIFFERENTIAL.

- RJ45 connectors for easy connection with standard Ethernet cable.

- UTP 568B Cable for Connection at Axes.
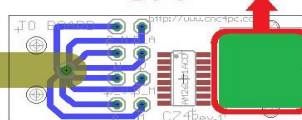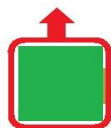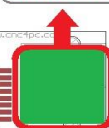
3.0   BOARD DESCRIPTION

4.0 PINOUT

Ethernet Cable   Connector RJ45

RJ45 INPUT SIGNAL	
RJ45 PIN	Function
1	NOT USED
2	STEP
3	NOT USED
4	GND
5	ERR
6	DIR
7	12V/24V
8	5V

RJ45 OUTPUT SIGNAL	
RJ45 PIN	Function
1	STEP-
2	STEP+
3	DIR-
4	GND
5	ERR
6	DIR+
7	12V/24V
8	5V

UTP 568B Cable
For Connection
at Axes

Connector RJ45
Output Signal
DIFFERENTIAL

C74

The output signals of STEP and DIR are differentials.

5.0   WIRING DIAGRAMS

C74 SIGNAL OUTPUT. RJ45	
RJ45 PIN	FUNCTION
1	STEP-
2	STEP+
3	DIR-
4	GND
5	ERR/RES
6	DIR+
7	12V/24V
8	5V

C34AB Step and Dir. RJ45	
RJ45 PIN	FUNCTION
1	STEP-
2	STEP+
3	DIR-
4	GND
5	ERR/RES
6	DIR+
7	NOT USED
8	5V

FROM C62,C32S,C35S
(Step and Dir)

C74

C34AB

DRIVER

POWER SUPPLY 24VDC
L N ⏚
V+ V-

POWER SUPPLY 5VDC
L N ⏚
V+ V-

SOFT ENABLE

3 2 1
1-2 DIFF
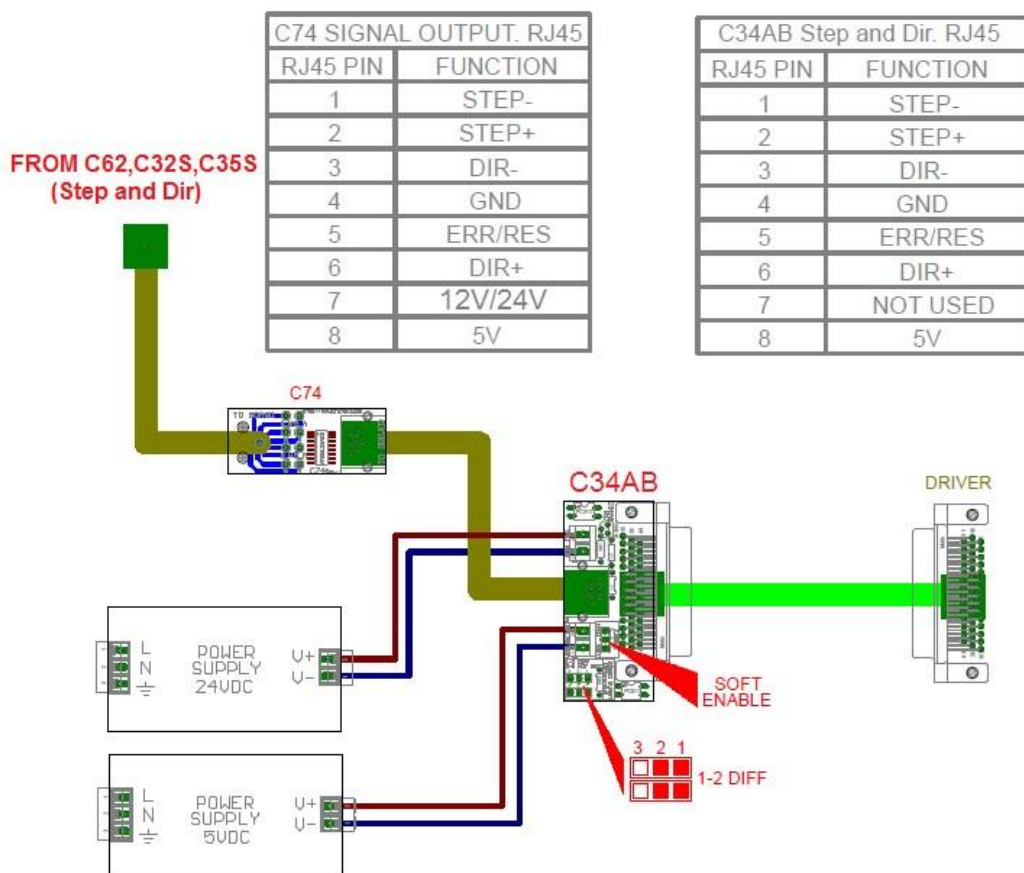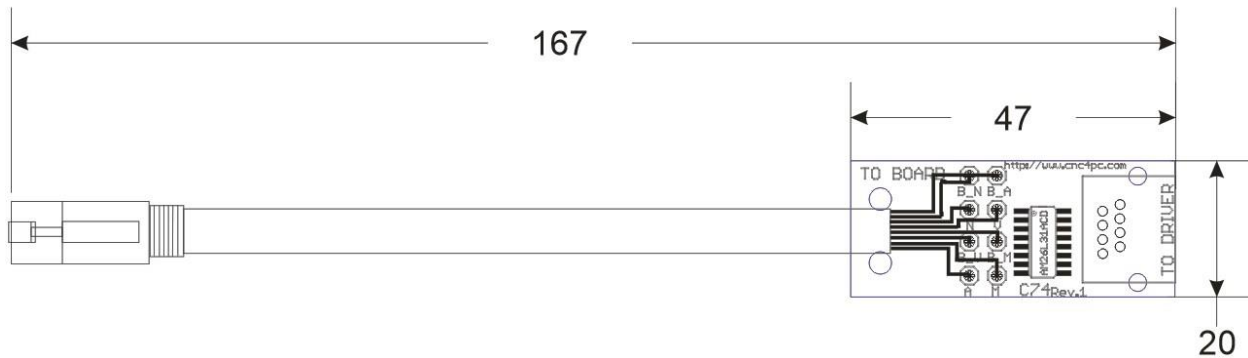
6.0 DIMENSIONS

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.