TABLE OF CONTENTS

Page #

Contents

1.0 OVERVIEW........................................................................................................1
2.0 FEATURES.........................................................................................................1
3.0 BOARD DESCRIPTION.......................................................................................1
4.0 CONNECTOR RJ45.............................................................................................2
5.0 PROBE JUMPER FOR RESISTOR......................................................................2
6.0 PROBE JUMPER FOR PIN RJ45.........................................................................3
7.0 JUMPER EXTERNAL E-STOP............................................................................3
8.0 JUMPER E-STOP...............................................................................................4
9.0 TERMINALS......................................................................................................5
  9.1 Signal of Enable..............................................................................................5
  9.2 Signal EXT. E-STOP.......................................................................................5
  9.3 E-STOP (Primary)..........................................................................................5
10.0 DIMENSIONS..................................................................................................6
1.0 OVERVIEW

This board provides the interface to easily interconnect 1 Probe and 1 external E-Stop to CNC4PC breakout board.

2.0 FEATURES

- 1 Mini-Jack connector for 1 Probe
- 1 Jack connector for 1 External E-Stop (Secondary- Optional E-Stop)
- RJ45 and Terminal for all I/Os and Power lines
- Easily mountable in the panel of CNC Control Boxes

3.0 BOARD DESCRIPTION

Requirements:
It requires a power supply of 5VDC@200mA or 24VDC@200mA to operate.
4.0 CONNECTOR RJ45

This connector allows an easy connection with C32 or C35 board. These RJ45 connectors are used not just to carry the INPUT/OUTPUT signals placed in terminals, but also to power board.

<table>
<thead>
<tr>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 1</td>
<td>1 8</td>
</tr>
</tbody>
</table>

**RJ45**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>GND</td>
<td>1</td>
</tr>
<tr>
<td>NOT USED</td>
<td>2</td>
</tr>
<tr>
<td>EXT. E-STOP/EN</td>
<td>3</td>
</tr>
<tr>
<td>PROBE</td>
<td>4</td>
</tr>
<tr>
<td>INDEX</td>
<td>5</td>
</tr>
<tr>
<td>EXT. E-STOP/EN</td>
<td>6</td>
</tr>
<tr>
<td>5V</td>
<td>7</td>
</tr>
<tr>
<td>NOT USED</td>
<td>8</td>
</tr>
</tbody>
</table>

5.0 PROBE JUMPER FOR RESISTOR

Set jumper in REQUIRED position if the input used in the breakout board to connect the probe signal is pulled to DOWN.
6.0 PROBE JUMPER FOR PIN RJ45

If used the board C3 as index, set jumper as sample in the image.

If used as probe, set the jumper as sample in the image.

7.0 JUMPER EXTERNAL E-STOP

If an External E-STOP (Secondary) is connected set jumper in USED position, if not set jumper in position NOT USED.
8.0 JUMPER E-STOP

If used an power supply of 5VDC, set the two jumper as sample in the image.

If used a power supply of 24VDC and in the output of terminal de EN and EXT E-STOP will work with 24V, set jumper as sample in the image.

If used a power supply of 24VDC and in the output of terminal de EN and EXT E-STOP will work with 5V, set jumper as sample in the image.
9.0 TERMINALS

9.1 Signal of Enable

Signal internally wired to the EXT. E-STOP signal. It can be used as an external enable for a breakout board.

9.2 Signal EXT. E-STOP

This signal is the result of the series between E-STOP (Primary) and EXT. E-STOP (Secondary).

9.3 E-STOP (Primary)

An E-STOP must be connected to those terminals in order to get any E-STOP signal in the EXT. E-STOP terminal.
10.0 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.