

CHAPTER 1

INTRODUCTION

The 8 channels relay output / photo isolator input board for pocket DIO provides relay output functions and photo isolator input functions. The relay output part provides 8 Single Pole Single Throw (SPST) relays to drive 8 different output channels. Each relay channel can be used to control ON / OFF of external devices, to drive external high power relays, to activate alarms ... etc.

The photo isolator input part provides 8 photo couple digital input channels, which allow the input signals to be completely floated and prevent the ground loop.

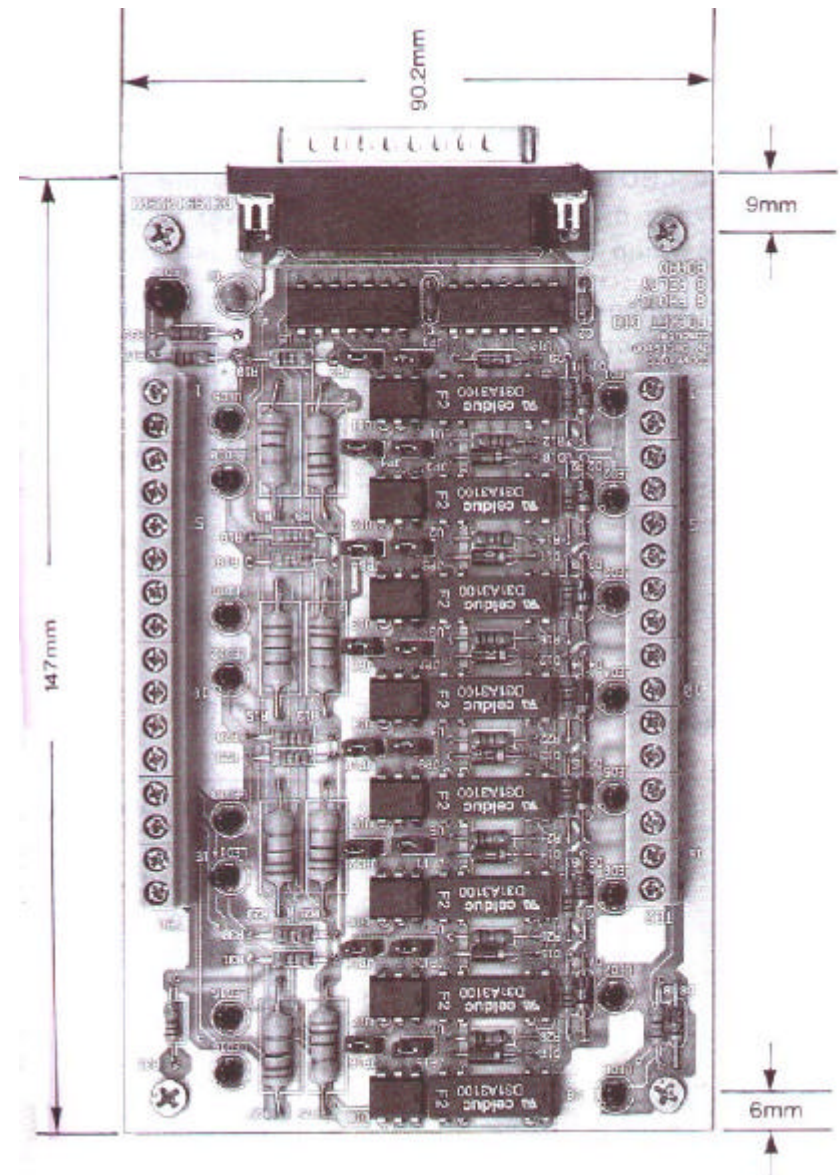
The features of 8 channels relay output / 8 channels photo isolator input board are:

- Support 8 relay output channels and 8 photo couple input channels.
- Max contact rating for relay: 120V AC/DC 1AMP.
- Attraction time for relay: 3 ms.
- Fall off time for relay: 2 ms.
- Isolation resistance for relay: 100M OHM.
- Life expectancy for relay: 5 million operation at full load.
- The Normal Open (NO) and Common contacts (COM) of each relay is brought out to the screw connector.
- Breakdown voltage : AC/DC 500V minimum.
- Allow the photo input signals to be completely floated and prevent the ground loops.
- Input current : 80mA maximum for each isolated input.
- Input voltage : 15V DC maximum for each isolated input.
- LED indicates when corresponds channel is activated.
- Isolated or non-isolated modes selectable.

- Operating temperature 0 to 60 °C.
- Storage temperature -20 to 70 degree °C.
- Humidity 5% to 95% in non-condensing.

1. Terminal Board

The figure of pocket DIO terminal board is shown on the following page.



CHAPTER 2

HARDWARE CONFIGURATION

Before you use the terminal board, you must be sure to have this board plugged into pocket DIO.

The LED17 in terminal board shows the power on status. When it turns to light, we have power to this board, otherwise when it does not light, no power is provided.

The Jumpers are used to select isolated or non-isolated mode, when open the jumpers, it sets to isolated mode, otherwise when short the jumpers, it sets to non-isolated mode. JP1 and JP2 correspond to channel 0, JP3 and JP4 correspond to channel 1, etc. When set to non-isolated mode, the IxL is short to system ground. (where x is the channel number)



2.1. Pin Assignment of T1

Pin	Description	Pin	Description
1	GND	14	+5V
2	DI0	15	GND
3	DI1	16	GND
4	DI2	17	GND
5	DI3	18	GND
6	DI4	19	GND
7	DI5	20	DO3
8	DI6	21	DO4
9	DI7	22	DO5
10	DO0	23	DO6
11	DO1	24	DO7
12	DO2	25	+5V
13	GND		

2.2. Pin Assignment of TB1 (Photo Isolator)

Pin	Description
1	I0H
2	I0L
3	I1H
4	I1L
5	I2H
6	I2L
7	I3H
8	I3L
9	I4H
10	I4L
11	I5H
12	I5L
13	I6H
14	I6L
15	I7H
16	I7L

2.3. Pin Assignment of TB2 (Relay Output)

Pin	Description
1	COM0
2	OTO0
3	COM1
4	OTO1
5	COM2
6	OTO2
7	COM3
8	OTO3
9	COM4
10	OTO4
11	COM5
12	OTO5
13	COM6
14	OTO6
15	COM7
16	OTO7

APPENDIX A

WARRANTY INFORMATION

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