

# R104-16DI User Guide

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## A) Digital Input Reading

The 16 inputs are accessed through I/O memory reads. The inputs are grouped in sets of four, and the group I/O memory address is an offset from the base decode address. Inputs are grouped as follows:

Group 1: Inputs DI1 to DI4	I/O address = Base Address
Group 2: Inputs DI5 to DI8	I/O address = Base Address + 1
Group 3: Inputs DI9 to DI12	I/O address = Base Address + 2
Group 4: Inputs DI13 to DI16	I/O address = Base Address + 3

The Inputs are bit mapped to the lower four data lines in each group as follows:

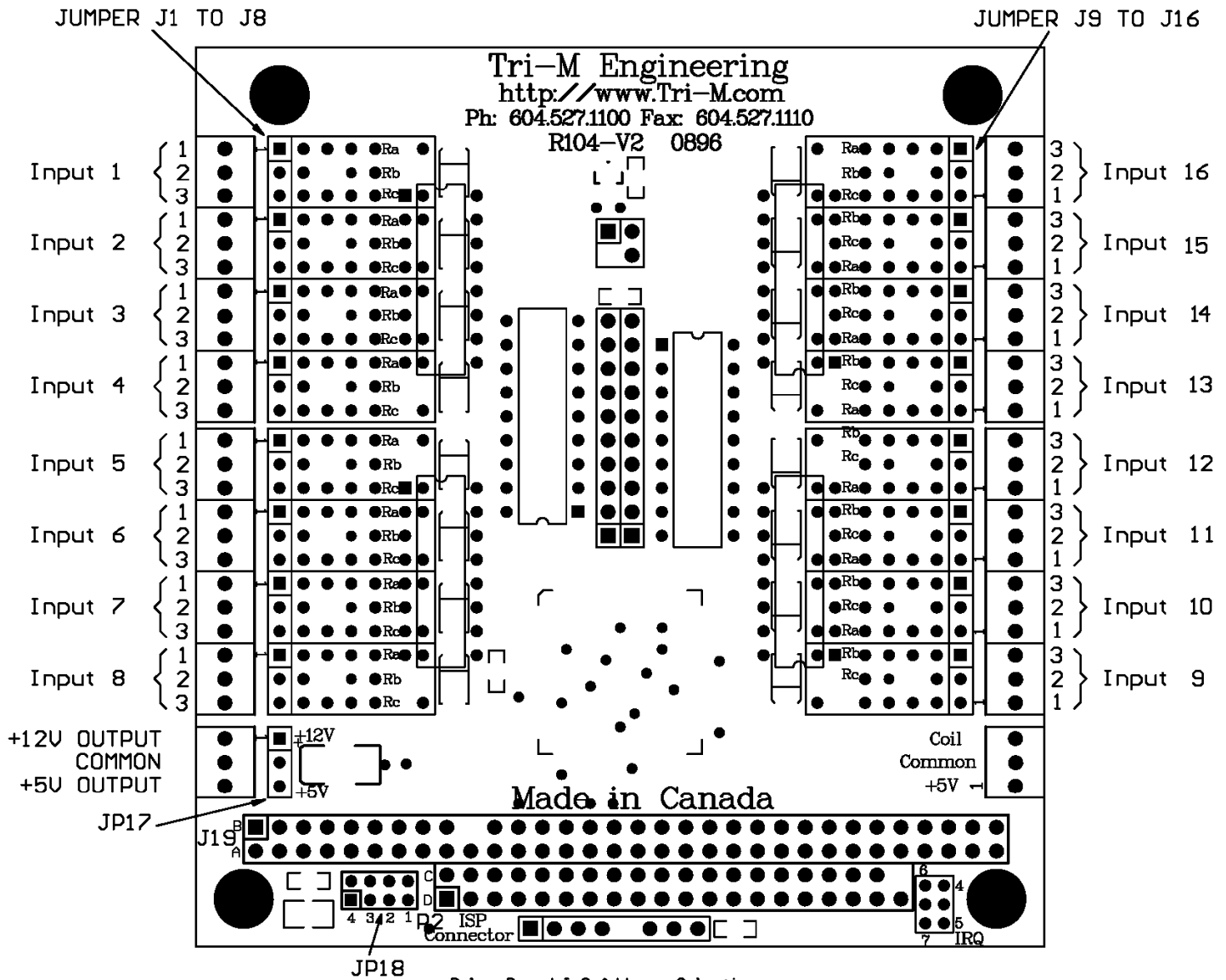
Input	SD3	SD2	SD1	SD0
Group 1	Input4	Input3	Input2	Input1
Group 2	Input8	Input7	Input6	Input5
Group 3	Input12	Input11	Input10	Input9
Group 4	Input16	Input15	Input14	Input13

## B) Base Address Setting

There are four decode base addresses, which are jumper selectable from the address select block J18.

Base Address	J18-1	J18-2
240H	Jumper Not Installed	Jumper Not Installed
260H	Jumper Installed	Jumper Not Installed
280H	Jumper Not Installed	Jumper Installed
300H	Jumper Installed	Jumper Installed

# R104-16DI Digital I/O Relay Board



Relay Board I/O Address Selection

JP18	1	2
ADDR 240H	OFF	OFF
ADDR 260H	ON	OFF
ADDR 280H	OFF	ON
ADDR 300H	ON	ON

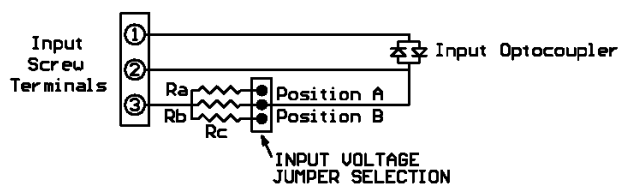
Digital Input Voltage Selection

Jumper	A	B
4-5V Input	ON	OFF
10-15V Input	OFF	ON
24-28V Input	OFF	OFF
* Other	OFF	OFF

\* Use external limit resistor in series with terminal 1 & 2

\*\* Digital Inputs are not polarity Sensitive

DIGITAL INPUTS



DIGITAL OUTPUTS

