

Model RB-08A

Eight Channel Electromechanical Relay Output Card



FEATURES

- *Eight SPDT Form C Relays*
- *Fully Compatible with PCDIO Family*
- *Contacts Rated at 2 Amps*
- *Can be Enclosed in an Optional UTB-B*
- *Up to 4 Cards can be Connected to One 24-Bit Digital I/O Card*

DESCRIPTION

The RB-08A mounts outside the host computer and contains eight Form C electromechanical relays. The card can just be mounted bare or in the optional UTB-B enclosure. The RB-08A receives outputs from Port A of a 24-bit digital I/O card, e.g. the PCDIO24-P. Readback of the relays is accomplished via Port B of the I/O card. Interconnection is provided by a CAB50A-6 ribbon cable.

A "Polarity Select" switch on the card provides means to select relay energization by either high or low logic levels. An LED associated with each relay illuminates when the associated relay is energized.

As many as four RB-08As can be connected to one 24-bit I/O port. The lower nibble of Port C is used for read/write select of the desired RB-08A. If only one relay card is used, +5VDC from the I/O card can power the card. If more than one RB-08A is to be used, then external +5VDC is required. Also, Port C high nibble bits are coupled to screw terminals on the RB-08A card for general purpose digital I/O use.

Relay outputs are brought out to eight sets of labeled screw terminals. The relays used are UL recognized, non-latching, polarized units designed to FCC Part 68 isolation requirements and can switch up to two amperes of current into a resistive load.



SPECIFICATIONS

LOGIC INPUTS (8 LINES)

Logic High

2.0 to 5.0VDC

Logic Low

-0.5 to 0.8VDC

Input Load (Hi)

70mA

Input Load(Lo)

600mA

LOGIC OUTPUTS (4 LINES)

Logic High

2.5VDC min, source 15mA

Logic Low

0.5VDC max, sink 24mA

RELAY OUTPUTS

Contacts

Form C, SPDT, non-latching

Contact Material

Gold overlay silver

Max. Switched Current

2A, AC or DC

Max. Carry Current

3A, AC or DC

Max. Switched Voltage

125VDC or AC

Max. Switched Power

30VA resistive

Operate Time (@nominal voltage)

8msec max. (including bounce)

Release Time (@nominal voltage)

8msec max.

Mechanical Life Expectancy

10 million operations min.

PHYSICAL

Power Required

+5VDC @ 174mA (all relays off)

+5VDC @ 455mA (all relays on)

Size

4.5" x 6.125" (114.3 x 155.6mm)

Operating Temperature

0° to 60°C

Storage Temperature

-30° to +105°C

Humidity

0 to 90% RHNC

ORDERING GUIDE

Model RB-08A

Card, manual, software



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