PCI-PDISO8

Specifications

Document Revision 1.3, February, 2010

Specifications

Typical for 25°C unless otherwise specified.

Specifications in *italic text* are guaranteed by design.

Relay specifications

Table 1. Relay specifications

Number	8
Contact configuration	5 FORM C (SPDT) RELAY 0 through RELAY 4
	3 FORM A (SPST) RELAY 5 through RELAY 7
Contact rating	*6 A @ 120 VAC or 28 VDC resistive (see connector rating below)*
Contact resistance	100 milliohms max
Operate time	*20 milliseconds max*
Release time	*10 milliseconds max*
Vibration	*10 to 55 Hz (Dual amplitude 1.5 mm)*
Shock	*10 G (11 milliseconds)*
Dielectric isolation	*500 V (1 minute)*
Life expectancy	*10 million mechanical operations, min*
Power on RESET state	Not energized. NC in contact to Common.

Isolated inputs

Table 2. Isolated input specifications

Number	8	
Isolation	*500 V*	
Resistance	1.6 k Ohms min.	
Voltage range	DC:	5 to 28 V (Not TTL compatible)
	AC:	5 to 28 V (50 to 1000 Hz)
Input ‘High’ level	>5V min (positive or negative input voltage - not TTL compatible)	
Input ‘Low’ level	<2.5V max (positive or negative input voltage)	
Response	w/o filter:	20 µS
	w/filter:	5 mS
Filters	Time constant:	5 mS (200 Hz)
	Filter control:	Software programmable at each input
	Power-up /reset:	Filters off

Power consumption

Table 3. Power consumption specifications

+5 V Power	All relays off:	0.4 A typical
	All relays on:	1 A typical

Environmental

Table 4. Environmental specifications

Operating temperature range	0 to 70 °C
Storage temperature range	-40 to 100 °C
Humidity	0 to 90% non-condensing

Main connector and pin out

Table 5. Main connector specifications

I/O connector type	37-pin D connector
Compatible cable	C37FF-x, where x = length in feet C37FFS-x, where x =5 or 10 feet
Compatible accessory products (with the C37FFS-x and C37FF-x cables)	CIO-MINI37 SCB-37
Max current	5 A

Table 6. Connector pin out

Pin	Signal Name	Pin	Signal Name
1	Input 7A	20	Input 7B
2	Input 6A	21	Input 6B
3	Input 5A	22	Input 5B
4	Input 4A	23	Input 4B
5	Input 3A	24	Input 3B
6	Input 2A	25	Input 2B
7	Input 1A	26	Input 1B
8	Input 0A	27	Input 0B
9	Relay 7 (C)	28	Relay 7 (NO)
10	Relay 6 (C)	29	Relay 6 (NO)
11	Relay 5 (C)	30	Relay 5 (NO)
12	Relay 4 (NC)	31	Relay 4 (C)
13	Relay 4 (NO)	32	Relay 3 (NC)
14	Relay 3 (C)	33	Relay 3 (NO)
15	Relay 2 (NC)	34	Relay 2 (C)
16	Relay 2 (NO)	35	Relay 1 (NC)
17	Relay 1 (C)	36	Relay 1 (NO)
18	Relay 0 (NC)	37	Relay 0 (C)
19	Relay 0 (NO)		

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