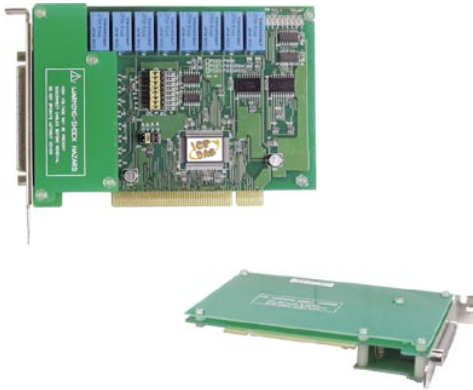


PISO-P8R8/P8SSR8AC/P8SSR8DC

8-channel isolated digital input & 8-channel relay output board



PISO-P8R8

Features

- 32-bit +5V PCI Bus, Plug & Play
- 8-channel electromechanical relay output (PISO-P8R8)
- 8-channel AC type solid state relay output (PISO-P8SSR8AC)
- 8-channel DC type solid state relay output (PISO-P8SSR8DC)
- 8-channel optical isolated digital input
- AC/DC signal input
- AC signal input with filter
- On-board LED indicate relay output status

Functional Description

The PISO-P8R8/P8SSR8AC/P8SSR8DC are isolated input/output interface boards for the PCI-Bus computers. The PISO-P8R8 provides 8-channel electromechanical relay output and 8-channel optically isolated input, while PISO-P8SSR8AC and PISO-P8SSR8DC provide 8-channel solid state relay output and 8-channel optically isolated input. The PISO-P8R8, PISO-P8SSR8AC and PISO-P8SSR8DC can be used in various applications including contact closure, external-voltage sensing, external-switch sensing and loading switching and designed for control and sensing applications.

Applications

- Factory automation
- Laboratory automation
- Communication switching
- Industrial automation

Specifications

Isolated Digital Input

- Number of channels: 8
- Type: non-polarized OPTO-Isolated
- Isolated voltage: 5000V
- Photo-coupler: PC-814
- Input current: 20 mA max (24V)
- Input voltage: AC/DC 5~24V (AC 50~1KHz)
- Input impedance: 1.2K Ω /1W
- Withstanding voltage: 1KV
- Response time: 20 μ S (without filter); 2.2mS (with filter)

Relay Output (PISO-P8R8)

- Number of channels: 8
- Output type: SPST (Form A)
- Contact rating:
 - 250VAC @ 1.6A, 120 VAC @ 1A
 - 30VDC @ 1A
- Surge Strength : 4000 VAC
- Relay on time: max 6 ms
- Relay off time: max 3 ms
- Insulation resistance: 1,000 M Ω @ 500VDC min
- Life: Mechanical: 20 x 10⁶ ops.
Electrical: 100 x 10³ ops.

AC-Type SSR Output (PISO-P8SSR8AC)

- Number of channels: 8
- Relay type: SPST (Form A)
- Contact rating: AC: 24 ~ 265 Vrms @ 1.0Arms
- Max. load current: 1.0Arms
- Min. load current: 10mArms
- Max. off-state leakage current:
 - 0.75mA (at 100Vrms 60Hz)
 - 1.5mA (at 200Vrms 60 Hz)
- 1 cycle surge current: 50A@60Hz
- Max. off-state voltage drop: 1.2Vrms
- Max. operate time: 1 ms
- Max. release time: 1/2 cycle + 1 ms
- Insulation resistance: 1,000 M Ω @500VDC min
- Life: long life, maintenance free

PCI Relay Output Board

PISO-P8R8/P8SSR8AC/P8SSR8DC

8-channel isolated digital input & 8-channel relay output board



PISO-P8SSR8AC



PISO-P8SSR8DC

DC-Type SSR Output (PISO-P8SSR8DC)

- Number of channels: 8
- Relay type: SPST (Form A)
- Contact rating: 3~30VDC@1A
- Max. load current: 1.0 A
- Min. load current: 1 mA
- Max. off-state leakage current: 0.1 mA (at 30 VDC)
- 1 cycle surge current: 3A (10ms)
- Max. off-state voltage drop: 1.2V
- Max. operate time: 1 ms
- Max. release time: 1 ms
- Insulation resistance: 1,000 MΩ@500VDC min
- Life: long life, maintenance free

General Specifications

- I/O connector: one 37-pin D-sub female
- Power requirements: +5V@300 mA
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 80°C
- Dimensions: 180 mm x 105 mm

Pin Assignment

NO_0	1	○	20	NO_3
COM_0	2	○	21	COM_3
	3	○	22	
NO_1	4	○	23	NO_4
COM_1	5	○	24	COM_4
	6	○	25	NO_5
NO_2	7	○	26	COM_5
COM_2	8	○	27	NO_6
	9	○	28	COM_6
NO_7	10	○	29	
COM_7	11	○	30	DIB_0
DIA_0	12	○	31	DIB_1
DIA_1	13	○	32	DIB_2
DIA_2	14	○	33	DIB_3
DIA_3	15	○	34	DIB_4
DIA_4	16	○	35	DIB_5
DIA_5	17	○	36	DIB_6
DIA_6	18	○	37	DIB_7
DIA_7	19	○		

Ordering Information

Standard

- PISO-P8R8:** 8-channel isolated digital input & 8-channel relay output board
- PISO-P8SSR8AC:** 8-channel isolated digital input & 8-channel AC-type solid state relay output board
- PISO-P8SSR8DC:** 8-channel isolated digital input & 8-channel DC-type solid state relay output board

Optional

- DN-37:** 2x37-pin connector DIN-rail mounting terminal board
- DB-37:** 37-pin D-sub directly connector terminal board