

Onboard Status LED Indicators

- □ State-changed Interrupt for all Digital Inputs
- Jumper-selectable Isolated or Non-isolated Digital Inputs

Introduction

The PISO-P725U is a Universal PCI card supporting both the 3.3 V and 5 V PCI bus, and provides 8 isolated or non-isolated Digital Input channels and 8 electromechanical Relay Output channels.

The DI channels can be set to either isolated or non-isolated via a hardware jumper, and each channel will generate an interrupt signal if the state is changed, which is very useful when monitoring contact openings/closures as it is not necessary to continuously poll the inputs. The isolated DI channels use a short optical transmission path to transfer an electronic signal between elements of a circuit and keep them electrically isolated. With 3750 V_{rms} isolation protection, the DI channels allow the input signals to be completely floated so as to prevent ground loops and isolate the host computer from potentially damaging voltage spikes.

The Relay Output channels are used where it is necessary to control a circuit using a low-power signal, with complete electrical isolation between the control and the controlled circuits, or where several circuits must be controlled by a single signal. All relays are de-energized (switched off) during poweron, and support ON/OFF status read back.

The PISO-725 can be used in a variety of applications, including contact closure, external voltage sensing, load sensing and I/O control, etc.

Software Pin Assignments								
Drivers				Pin	Terminal No.			Pin
✓ 32/64-bit Windows	XP/2003/2008/7/8/10			ssign- ment				Assign- ment
Sample Programs DOS Lib and TC Demo LabVIEW Toolkit VB/VC/Delphi/BCB/VB.NET/C#.NET/VC.NET/MATLAB Demo			NO_0 COM_0 NC_0 NO_1 COM_1 NC_1 NO_2	01 02 03 04 05 06 07	••••	20 21 22 23 24 25 26	NO_3 COM_3 NC_3 NO_4 COM_4 NO_5	
Hardware Specifications		-	N	COM_2 NC_2 NO_7	08 09 10	•••	26 27 28	COM_5 NO_6 COM_6
Channels	8			O_7	11	•	29	GND
Isolation Voltage	3750 V _{rms} (Photocoupler)	-		IA_0	12	••	30	DIB_0
Input Voltage	Logic 0: 0 ~ +1 V, Logic 1: +9 ~ +24 V	1	D	IA_1	13	• •	31	DIB_1 DIB_2
Input Impedance	1.2 ΚΩ, 1 W		D	IA_2	14		32 33	DIB_2 DIB_3
Response Speed	4 kHz (Typical)			IA_3	15		34	DIB_5
Digital Output				IA_4	16		35	DIB_5
Channels	8			IA_5	17		36	DIB_6
Relay Type	Form C			IA_6	18		37	DIB_7
Contact Rating	AC: 0.3 A/120 V, DC: 1 A/30 V			IA_7	19			
Operating Time	5 ms (Typical)	7						
Release Time	10 ms (Typical)					V		
Lifetime	Mechanical: 100,000 ops. (30 V/1 A)					CON1		
General								
Bus Type	3.3 V/5 V Universal PCI, 32-bit, 33 MHz	٦.						

Ordering Information

Yes (4-bit)

0 ~ 60 °C

Female DB37 x 1

300 mA @ +5 V

 $5 \sim 85\%$ RH, non-condensing

Card ID

Humidity

I/O Connector

Power Consumption

Operating Temperature