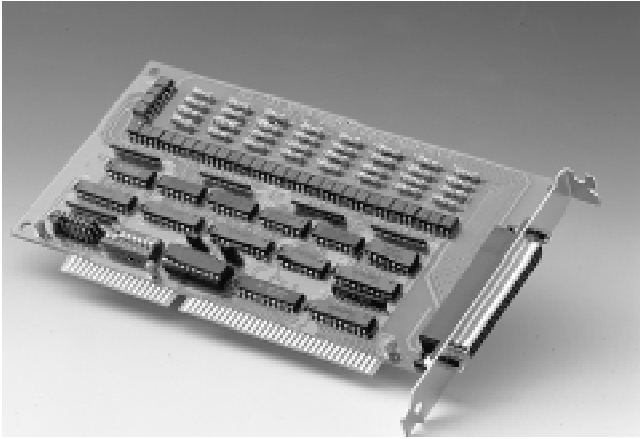


PCL-733

32-channel Isolated Digital Input Card



Features

- 32 isolated, bidirectional digital input channels
- High-voltage isolation (2,500 V_{DC})
- Interrupt capacity
- D-type connectors for isolated input channels

Introduction

The PCL-733 has 32 isolated, bidirectional digital input channels, which provide 2,500 V_{DC} of protection. The PCL-733 offers two PC interrupts with jumper-selectable IRQ. Each input channel corresponds to a bit in a PC I/O port, making the PCL-733 very easy to program.

Applications

- Industrial On/Off control
- Contact closure monitoring
- Switch status sensing
- BCD interfacing
- Digital input control
- Industrial and lab automation

Specifications

- **Input voltage:** 5 ~ 24 V_{DC}
- **Input resistance:** 1.2 kW @ 0.5 W
- **Isolation voltage:** 2,500 V_{DC}
- **Throughput:** 10 kHz max.
- **Interrupt level:** 2, 3, 5, 7, 10, 11, 12, 15
- **Interrupt source:** Isolated input channel 0 and channel 16

General

- **Power consumption:** +5 V @ 320 mA (typical)
+5 V @ 500 mA (max.)
- **Operating temperature:** 0 ~ +60° C (32 ~ 140° F)
- **Storage temperature:** -20 ~ +70° C (-4 ~ 158° F)
- **Operating humidity:** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **Connector:** 37-pin D-type female connector
- **Dimensions:** 185 mm (L) x 100 mm (H) (7.3" x 3.9")

Pin Assignments

| | | |
|---------|----|---------|
| ID10 | 1 | ID11 |
| ID12 | 2 | ID13 |
| ID14 | 3 | ID15 |
| ID16 | 4 | ID17 |
| EI.GND1 | 5 | ID18 |
| ID19 | 6 | ID10 |
| ID11 | 7 | ID12 |
| ID13 | 8 | ID14 |
| ID15 | 9 | ID16 |
| ID17 | 10 | EI.GND2 |
| ID18 | 11 | ID17 |
| ID19 | 12 | ID19 |
| ID20 | 13 | ID21 |
| ID22 | 14 | ID23 |
| EI.GND3 | 15 | ID24 |
| ID25 | 16 | ID26 |
| ID27 | 17 | ID28 |
| ID29 | 18 | ID30 |
| ID31 | 19 | EI.GND4 |
| NC | | |

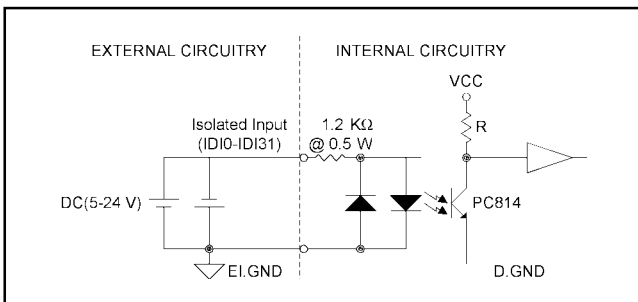
IDI: Isolated digital input

EI.GND: External ground for isolated input

NC: No connection

Ordering Information

- PCL-733: 32-channel isolated digital input card
- PCL-10137: DB-37 cable assembly, 1 m
- PCLD-880: Screw terminal board
- PCLS-OCX: ActiveX Control for data acquisition and control
- ADAM-3937: DB-37 wiring terminal for DIN-rail mounting



Isolated Input Circuit Diagram