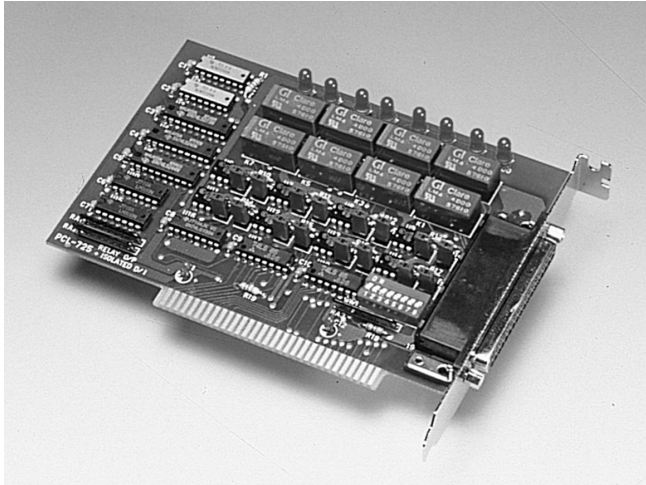


PCL-725

Relay Actuator and Isolated Digital Input Card



CE

Features

- 8 relay outputs
- 8 optically-isolated digital inputs
- LED relay status indicators
- Isolated or non-isolated digital inputs
- Male DB-37 matching connector included

Introduction

The PCL-725 relay actuator and isolated digital input card provides eight electromechanical SPDT relays and eight optically-isolated digital inputs on a half-size card. Its eight on-board SPDT relays are ideal for applications such as device On/Off control or low power switching. A red LED next to each relay shows its On/Off status for easy monitoring. The PCL-725's eight optically-isolated D/I channels are ideal for digital input in noisy environments or with floating potentials. You can configure each input channel individually for either isolated or non-isolated input by setting jumpers. An on-board DB-37 connector provides access to all input and output channels.

Specifications

Isolated Digital Input

- **Input Channels** 8
- **Opto-isolator** 4N25
- **Input Voltage** 5 ~ 24 V
- **Input Resistance** 560 Ω (1 W @ 24 V input)
- **Input Buffers** voltage comparators
- **Threshold Voltage** 1.5 V_{DC}, adjustable
- **Breakdown Voltage** 300 V_{DC}
- **Throughput** 10 KHz (max)

Relay Output

- **Output Channels** 8
- **Relay Type** single-pole double-throw (SPDT, Form C)
- **Output Type** CH0 ~ CH3 with Normally Open and Normally Closed, CH4 ~ CH7 with Normally Open only
- **Contact Rating** 120 V_{AC} @ 0.5 A or 30 V_{DC} @ 1 A
- **Breakdown Voltage** 300 V AC/DC min.
- **Relay on Time** 5 msec. typical
- **Relay off Time** 5 msec. typical
- **Total Switching Time** 10 msec. typical
- **Insulation Resistance** 100 M Ω min.
- **Life Expectancy** > 5 x 10⁵ operations at AC: 110 V/0.3 A, DC: 24 V/1.25 A
- **Relay Driver** +12 V @ 33 mA for each relay

General

- **Power Consumption** +5 V @ < 0.2 A; +12 V @ 33 mA for each relay, < 0.27 A if all eight relays are energized
- **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)
- **I/O Port Address** two consecutive bytes from hex 200 ~ 3F8
- **Connector** 37-pin D-type female connector
- **Dimensions** 147 mm (L) x 100 mm (H) (5.75" x 3.9")

Ordering Information

- **PCL-725** Relay actuator and isolated D/I Card, user's manual, driver CD-ROM and one DB-37 male connector (P/N: PCL-10437-0)
- **PCL-10137-1** DB-37 cable assembly, 1 m
- **PCL-10137-2** DB-37 cable assembly, 2 m
- **PCL-10137-3** DB-37 cable assembly, 3 m
- **PCLD-880** Universal screw terminal board
- **ADAM-3937** DB-37 wiring terminal for DIN-rail mounting

Applications

- Digital signal and contact status monitoring
- Industrial on/off control
- Signal switching
- External relay driving