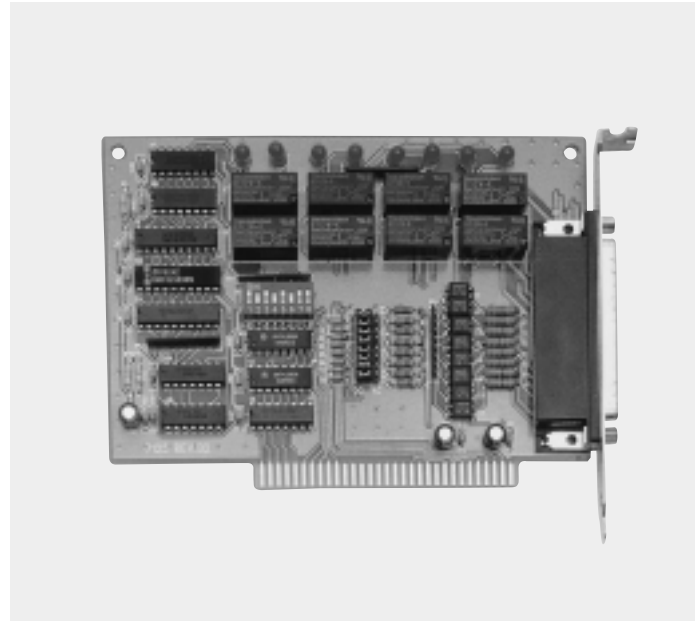


# ACL-7125

## 8-CH Relay Output & 8-CH Isolated DI Card

### Features

- 8 relay actuator outputs
- 8 opto-isolated digital inputs
- LEDs indicate the energized relays
- Onboard relay driving circuits
- Onboard digital input signal conditioning circuits
- Inputs are jumper selectable for AC/DC isolated input
- Register compatible with ACL-725/PCL-725



### Introduction

ACL-7125 provides 8 electro-mechanical SPDT relays and 8 opto-isolated differential digital inputs on a compact board.

### Specifications

#### Relay Outputs

The 8 electro-mechanical relay outputs are addressed as a single I/O byte. Four of the relays are Form C contacts (Normally Open and Normally Closed) and the remaining relays are Normally Open. A red LED indicates each relay's ON/OFF status for monitoring.

- Numbers of relay: 8 relays, include 4 Form C, 4 Form A
- Relay type: Single-Pole Double-Throw (SPDT)
- Contact rating:  $120V_{AC}/0.5A$  or  $24V_{DC}/1A$
- Breakdown voltage:  $1000V_{AC/DC}$  Peak min.
- Relay on/off time: 5 msec. typical
- Relay current:  $+12V@33mA$  for each relay

#### Isolated Outputs

The 8 opto-isolated DI channels are used for sensing digital inputs and provide 1,000VDC isolation. Each can be configured with AC Filter or Non-AC Filter by jumper settings.

- Photo isolators: PC-814
- Number of input channels: 8
- Input signal
  - AC: don't care polarity
  - DC: 0~24V or -24~0V

- Input voltage: 0~ $24V_{DC}$  or AC 50~1,000Hz
- Input impedance:  $1.2K\Omega$
- Isolation voltage:  $2500V_{DC}$  channel-to-channel and channel-to-ground
- Response time: 20  $\mu$ sec without AC Filter, 2.2ms with AC Filter

#### General Specifications

- Operating temperature:  $0^{\circ} \sim 55^{\circ}C$
- Storage temperature:  $-20^{\circ} \sim 80^{\circ}C$
- Humidity: 5~95%, non-condensing
- Power requirement:
  - $+5V @ 130mA$  typical
  - 180mA max
- Dimension: 148 mm x 107 mm

### Termination Boards

- ACLD-9137      • ACLD-9188
- DIN-37D

### Ordering Information

#### ACL-7125

Relay Actuator & Isolated DI Card

#### Pin Assignments for the DB-37 Connector

NO0 (1)	○	(20) NO3
COM0 (2)	○	(21) COM3
NC0 (3)	○	(22) NC3
NO1 (4)	○	(23) NO4
COM1 (5)	○	(24) COM4
NC1 (6)	○	(25) NO5
NO2 (7)	○	(26) COM5
COM2 (8)	○	(27) NO6
NC2 (9)	○	(28) COM6
NO7 (10)	○	(29) -
COM7 (11)	○	(30) DI0L
DI0H (12)	○	(31) DI1L
DI1H (13)	○	(32) DI2L
DI2H (14)	○	(33) DI3L
DI3H (15)	○	(34) DI4L
DI4H (16)	○	(35) DI5L
DI5H (17)	○	(36) DI6L
DI6H (18)	○	(37) DI7L
DI7H (19)	○	