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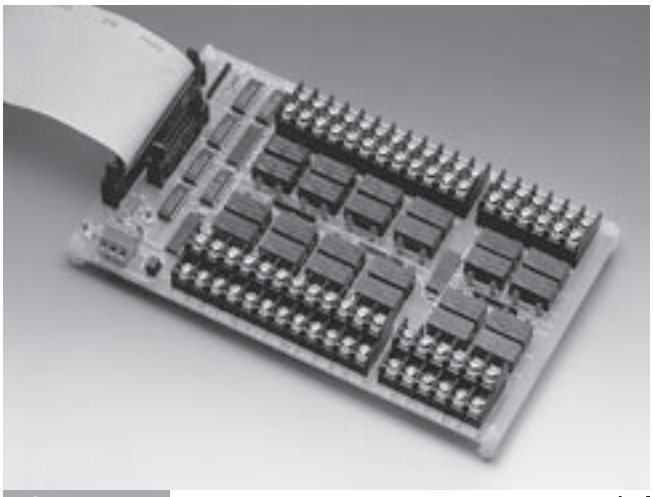
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PCLD-785
PCLD-785B
PCLD-885

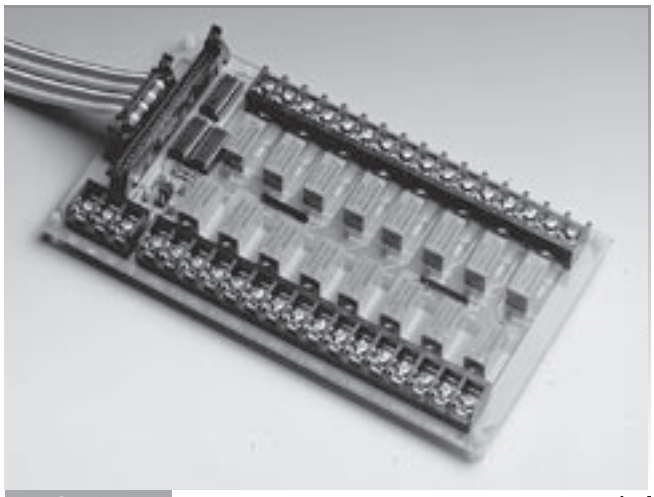
16-ch Relay Output Board

24-ch Relay Output Board

16-ch Power Relay Output Board



PCLD-785/785B



PCLD-885

Features

- Compatible with PC-LabCard™ products with 20-pin digital output connector and 50-pin Opto-22 digital output connector (PCLD-785B only)
- Automatic selection of control logic (PLCD-785B only): Negative logic for the Opto-22 connector Positive logic for the 20-pin flat cable connector
- Relays: PCLD-785: 16 SPDT, PCLD-785B: 16 or 24 SPDT
- Onboard relay driver circuits
- Screw terminals for easy output wiring
- LED status indicators

Specifications

Relay

- **Channels** PCLD-785: 16 (CN1, 20-pin conn.)
  PCLD-785B: 16 (CN1, 20-pin conn.)
  24 (CN2, 50-pin conn.)
- **Contact Ratings** 120 V_{AC} @ 0.5 A, 30 V_{DC} @ 1 A
- **Contact Resistance** < 100 mΩ
- **Control Logic** 20-pin flat cable conn.: Input TTL high (+5 V) = Relay on
  50-pin Opto-22 conn.: Input TTL low (0 V) = Relay on
- **Operation Time** 5 ms max.
- **Insulation Resistance** 100 MΩ
- **Life Expectancy** AC: 5 x 10^5 @ 110 V/0.3 A
  DC: 5 x 10^5 @ 24 V/1.25 A
- **Relay Type** SPDT (Single-Pole Double-Throw) Form C
- **Release Time** 5 ms max.

General

- **Dimensions (L x W)** PCLD-785: 114 x 220 mm (4.5" x 8.7")
  PCLD-785B: 132 x 220 mm (5.2" x 8.7")
- **Power Consumption** +5 V @ < 100 mA; +12 V @ 33 mA for each relay
- **Power Input** 20-pin connector:
  +5 V_{DC} : Jumper select either PC bus or external supply
  +12 V_{DC} : Jumper select either PC bus or external supply
  50-pin connector: external 12 V supply

Ordering Information

- **PCLD-785B** 24-ch Relay Output Board, user's manual, 1 m
  20-pin flat cable assembly (P/N: PCL-10120-1) and
  1.2 m 50-pin flat cable assembly (P/N: PCL-10150-1.2)
- **PCLD-785** 16-ch Relay Output Board, user's manual, 1 m
  20-pin flat cable assembly (P/N: PCL-10120-1)
- **PCL-10120-1** 20-pin flat cable assembly, 1 m
- **PCL-10120-2** 20-pin flat cable assembly, 2 m
- **PCL-10150-1.2** 50-pin flat cable, 1.2 m (connects the PCL-722 or 724 to the PCLD-885, 782B or 785B)

Features

- Accepts 20-pin or 50-pin (Opto-22 compatible) connectors
- 16 single-pole single-throw (SPST) relays
- High-power relay handles up to 5 A @ 250 V_{AC}
- Onboard varistors protect all relay contact points
- Industrial screw terminals for ease of wiring
- LED On/Off status indication for each relay
- +5 V/+12 V power/status LED indicator

Specifications

Relay

- **Breakdown Voltage** 750 V_{AC} for 1 minute, between open contacts
  2500 V_{AC} for 1 minute, between coil and contacts
- **Contact Rating** AC: 250 V @ 5 A
  DC: 30 V @ 5 A
- **Contact Resistance** 30 mΩ max.
- **Insulation Resistance** 1000 mΩ @ 500 V_{DC}
- **Life Expectancy** >100,000 cycles at rated load
- **Relay on Time** 6 ms max.
- **Relay off Time** 3 ms max.
- **Relay Type** SPST (Form A), normally open

Varistor

- **Clamping Voltage** 760 V (10 A)
- **Max. Peak Current** 1200 A for 8 msec.
- **Max. Applied Voltage** 300 V_{RMS} AC continuous
- **Varistor Voltage** 470 V (current = 1 mA)

General

- **Power Consumption** 12 V @ 22 mA for each relay,
  352 mA if all relays energized; 5 V @ 200 mA max.
- **Connectors**
  Input: 20-pin flat cable or 50-pin Opto-22 compatible
  Output: Barrier strip screw terminal
- **Dimensions (L x W)** 205 x 114 mm (8" x 4.5")
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)

Ordering Information

- **PCLD-885** 16-ch Power Relay Output Board, one 1m 20-pin flat cable assembly (P/N: PCL-10120-1) and a 1.2 m 50-pin flat cable assembly (P/N: PCL-10150-1.2)

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