

### 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<sub>AC</sub>
- On-board 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

### Introduction

The PCLD-885 provides 16 SPST power relay channels with a maximum contact rating of 250 V<sub>AC</sub> @ 5 A or 30 V<sub>DC</sub> @ 5 A. The PCLD-885 can be driven directly by the digital output from PC-LabCards through its 20-pin flat cable connector or its 50-pin Opto-22 compatible connector.

The PCLD-885 is a low-cost alternative to SSR modules. Each of its inputs is equipped with a varistor that shunts the surge voltage of inductive loads or electromagnetic brakes, to protect its relay contact points. All output contacts are easily accessible through industrial screw terminals on each side of the board. Each relay is equipped with an adjacent LED for monitoring its On/Off status. To avoid overloading your PC's power supply, the PCLD-885 also provides a jumper and a screw terminal for an external power supply.

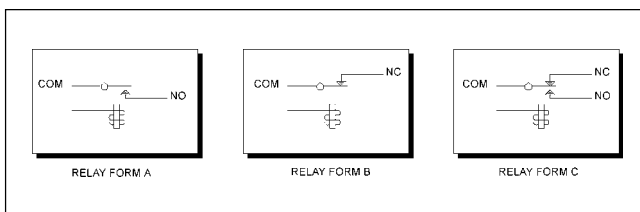
### Applications

- Power or signal switching
- External device On/Off control
- Valve/solenoid control
- Annunciation control
- Alarm activation

### Specifications

#### Relay

- **Relay type:** SPST (Form A), normally open



- **Contact rating**  
AC: 250 V @ 5 A  
DC: 30 V @ 5 A
- **Contact resistance:** 30 m Ω max.
- **Relay on time:** 6 msec. max.
- **Relay off time:** 3 msec. max.
- **Breakdown voltage:**  
750 V<sub>AC</sub> for 1 minute, between open contacts  
2500 V<sub>AC</sub> for 1 minute, between coil and contacts
- **Insulation resistance:** 1000 G Ω min.
- **Life expectancy:** > 100,000 cycles at rated load

#### Varistor

- **Varistor voltage:** 470 V (current = 1 mA)
- **Clamping voltage:** 760 V (10 A)
- **Max. peak current:** 1200 A for 8 msec.
- **Max. applied voltage:** 300 V<sub>RMS</sub> AC continuous

#### General

- **Power consumption:** 12 V @ 22 mA for each relay, 352 mA if all relays energized; 5 V @ 200 mA max.
- **Input connectors:** 20-pin flat cable or 50-pin Opto-22 compatible connector
- **Output connectors:** Barrier strip terminal blocks
- **Dimensions:** 205 mm x 114 mm (8" x 4.5")

### Ordering Information

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