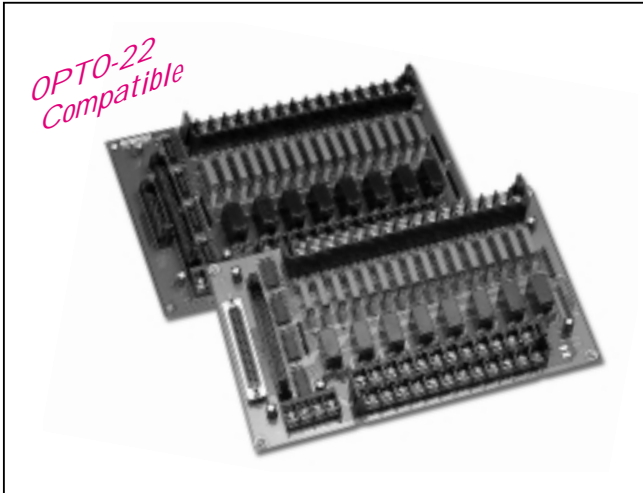




# DB-24PR / DB-24PRD

## 24-Channel Power Relay Output Board

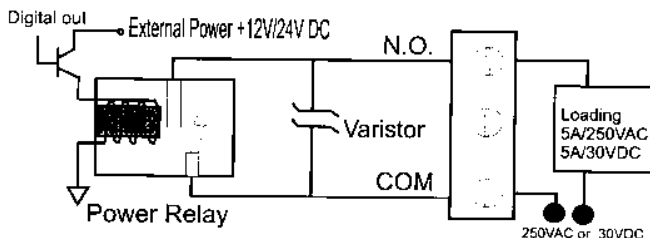


### Functional Description

The DB-24PR/DB-24PRD 24-Channel power relay output board consists of 8 form C and 16 form A electromechanical relays for efficient switching of load by programmed control. The contact of each relay can control a 5 A load at 250VAC/30VDC. The relay is energized by applying 50-pin OPTO-22 compatible connector, 37-pin D-sub connector or 20-pin flat cable connector. Twenty-four enunciator LEDs, one for each relay, light when their associated relay is activated. To avoid overlading your PC's power supply, this board needs a +12VDC or +24VDC external power supply.

### Features

- 8 Form C Relays (SPDT) and 16 Form A Relay
- DB-24PR: Accept 50-pin connector to control 8 form C and 16 form A relay or accept 20-pin connector to control 8 form C and 8 form A relay
- DB-24PRD: Accept 37-pin connector and 50-pin connector to control 8 form C and 16 form A relay
- Switch up to 5A at 250A VAC/5A at 30VDC
- LEDs indicated relay status
- Designed varistor to protect each channel's high voltage spike



- Screw terminals for easy field wiring
- 50-Pin header Connects directly to DIO-24, DIO-48, DIO-144, PCI-D144, or other OPTO-22 compatible board
- 20-Pin header connects directly to A-82x, A-626, A-628, DIO-64, PCI-1800, PCI-1802, PCI-1202, PCI-1602, PCI-1002, PCI-DA16, PCI-TMC12, ISO-DA16/8
- D-sub connector connect directly to PIO-D144, PIO-D96, PIO-D56, PIO-D48, PIO-D24

### Applications

- On/off control
- Energy management
- Test Automation
- Process control

### Specifications

- Relay
  - Nominal load: 5 A/250 VAC, 5A/30 VDC
  - Max. Switching power: 0.1HP
  - Max. Switching Voltage: 270VAC, 150VDC
  - Max. Switching Current: 5A
  - Life Expectancy: Mechanical ( $2 \times 10^7$ ), Electrical ( $3 \times 10^4$ )
  - Time Value: Operate (10 ms)
  - Control Logic: Input TTL high (+5V), relay on
- Power Consumption: 24V @0.8A max.; 5V @0.2A max.
- Dimensions: 130mm x 210mm
- Operating Temperature: 0 -50°C
- Storage Temperature: -20~70°C
- Humidity: 5% to 90%

### Order Description

- DB-24PR/12: 24 channel OPTO-22 Relay (12V) Board
- DB-24PR/12/DIN: DB-24PR/12 with DIN-Rail mounting kit
- DB-24PR/24: 24 channel OPTO-22 Relay (24V) Board
- DB-24PR/24/DIN: DB-24PR/24 with DIN-Rail mounting kit
- DB-24PRD/12: 24 channel OPTO-22 Relay Board (12V)with D-Sub 37 connector
- DB-24PRD/12/DIN: DB-24PRD/12 with DIN-Rail mounting kit
- DB-24PRD/24: 24 channel OPTO-22 Relay Board (24V) with D-Sub 37 connector
- DB-24PRD/24/DIN: DB-24PRD/24 with DIN-Rail mounting kit