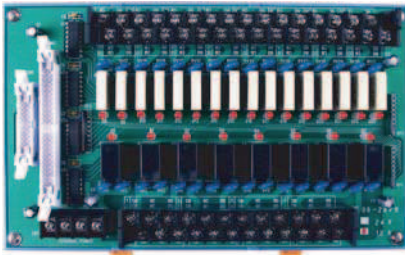
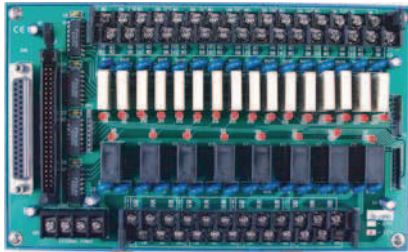


# DB-24PR/24PRD

## 24-channel power relay output board



DB-24PR



DB-24PRD

### Functional Description

The DB-24PR/24PRD is a 24-Channel power relay output board which 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 5A load at 250VAC/30VDC. The relays are energized by applying a 50-pin OPTO-22 compatible connector, a 37-pin D-sub connector or a 20-pin flat cable connector. Twenty-four enunciative LEDs, one for each relay, light when their associated relays are activated. To avoid overlading your PC's power supply, this board needs a +12VDC or +24VDC external power supply.

### Specifications

#### Form A Relay Output

- Nominal load: 250VAC@5A, 30VDC@5A
- Max. switching power: 1250VA; 150W
- Max. switching Voltage: 270VAC, 150VDC
- Max. switching Current: 5A
- Life Expectancy: 20 millions operations (Mechanical)
- Operate time: 10ms
- Release time: 5ms

#### Form C Relay Output

- Nominal load: 250VAC@5A, 30VDC@5A
- Max. switching power: 1250VA(NO), 750VA(NC)
- Max. switching Voltage: 250VAC, 150VDC
- Max. switching Current: 5A
- Life expectancy: 10 millions operations (Mechanical)
- Operate time: 10ms
- Release time: 5ms
- Control Logic: Input TTL high (+5V), relay on

### Features

- 8 Form C Relays and 16 Form A Relays
- 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 250 VAC or 30VDC
- LEDs indicate relay status
- Designed varistor to protect each channel's high voltage spike
- Screw terminals for easy field wiring

### General Specifications

- Power Requirements: 24V@0.8A max;  
5V@0.2A max
- Operating temperature: 0 ~ 60°C
- Operating humidity: 5 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Dimensions: 132 mm x 210 mm

### Ordering Information

#### Standard

- DB-24PR/12:** 24-channel OPTO-22 power relay board with CA-5015 cable (12V coil voltage)
- DB-24PR/12/DIN:** DB-24PR/12 with DIN-rail mounting kit
- DB-24PR/24:** 24-channel OPTO-22 power relay board with CA-5015 cable(24V coil voltage)
- DB-24PR/24/DIN:** DB-24PR/24 with DIN-rail mounting kit
- DB-24PRD/12:** 24-channel OPTO-22 power relay board with CA-3710 cable (12V coil voltage)
- DB-24PRD/12/DIN:** DB-24PRD/12 with DIN-rail mounting kit
- DB-24PRD/24:** 24-channel OPTO-22 power relay board with CA-3710 cable (24V coil voltage)
- DB-24PRD/24/DIN:** DB-24PRD/24 with DIN-rail mounting kit

#### Optional

- CA-2010:** 20-pin flat cable, 1m
- CA-2020:** 20-pin flat cable, 2m
- CA-3720:** 37-pin D-sub cable, 2m