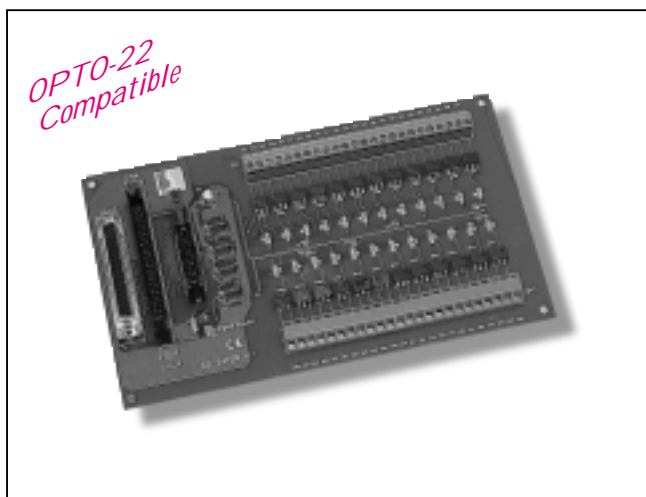




## **DB-24POR**

### **24-Channel Photo Mos Output Board**



#### **Functional Description**

The DB-24POR includes 24 normally open, Form A, Photo Mos Relays. The board interface to field logic signals, eliminating ground-loop problems and isolating the host computer from damaging voltages. The user can use the DB-24POR to switch load, up to 350VAC and up to 0.13 A. The relay is energized by applying a 5 volt signal to the appropriate relay channel on the 50-pin OPTO-22 compatible connector or 37-pin D-Sub connector. Twenty-four unicolor LEDs, one for each relay, light when their associated relay is activated. Because there is a D-sub 37-pin connector on the board, the user may use it to interface to any TTL output board. In other words, the user may use it as a general purpose Photo Mos Relay Output Board.

#### **Features**

- 24 optically isolated digital output channels
- 24 Form A Photo Mos Relays
- Switch up to max. 0.13A at max. 350VAC
- 5VDC logic levels
- 5,000V optical isolation
- LED indicate relay status

- Screw terminal for easy field wiring
- Build in fuses and diodes to protect from wrong connection of external power supply.
- 50-Pin header connects directly to DIO-24, DIO-48, DIO-144, PIO-D144 OPTO-22 compatible board or any 722,724 series board
- D-Sub 37 pin connector connects directly to PCI-D144 board or another OPTO-22 board with ADP-37 adapter

#### **Applications**

- On/off control
- Energy management
- IC Factory Automation
- Test Automation
- Process Control

#### **Specifications**

- PHOTO MOS RELAY
  - Turn on time :  $T_{on} = 0.7\text{ms}$  (Typical)
  - Turn off time :  $T_{off} = 0.05\text{ms}$  (Typical)
  - Output : on resistance =  $23\Omega$  (typical)
  - Load voltage : 350V (Peak AC)
  - Continuous load current : 0.13A (Peak AC)
  - Power dissipation : 500mW
  - Input / Output isolation : 5000 V(AC)
  - Power Consumption : 5V @ 0.3A max.
  - Dimensions : 130mm x 220mm
  - Operating Temperature : 0 -60°C
  - Storage Temperature : -20-70°C
  - Humidity : 5% to 90 % , noncondensing

#### **Order Description**

- DB-24POR : 24 channel OPTO-22 Photo Mos Relay Board with 1.5 meter 50-pin flat-cable
- DB-24POR/D: 24 channel OPTO-22 Photo Mos Relay Board with 1.5 meter 37-pin D-sub cable
- DB-24POR/DIN : DB-24POR with DIN-Rail mounting kit
- DB-24POR/D/DIN: DB-24POR/D with DIN-Rail mounting kit