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Find the *ICP DAS DB-24P* at our website: *Click HERE*

DB-24P / DB-24PD

24-channel OPTO-Isolated Input Board



Manual Certification

Model: DB-24P / DB-24PD

Functional Description

The DB-24P is a 24 channel isolated digital input daughter board for DIO24,DIO48,DIO144 ,PIO-D144,OPTO-22 Compatible digital input board or any 722,724, digital input board . The optically isolated inputs of the DB-24P consist of a bi-directional opto-couple with a resistor for current sensing . You can use the DB-24P to sense DC signal from TTL levels up to 24V. You can also use DB-24P to sense a wide range of AC signals. The DB-24 P registers a constant logic high if the frequency of the input AC signal is greater or equal to 1 kHz, and if the voltage of the AC signal is at least 4Vrms. If you are using AC input signal ,you must short the AC filter Jumper. You can use the board to isolate the computer from large common-mode voltages ,ground loops, and voltage spikes that often occur in industrial environments.

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Features

- Optically isolated digital input channels
- Connects directly to DIO24,DIO48,DIO144 OPTO-22 compatible digital input card or any 722,724 OPTO-22 compatible digital input board.
- AC/DC Signal Input
- AC Signal Input with filter
- Input buffer with voltage comparators
- Isolated digital input sensing

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Specifications

- I/O connector Electrical Specifications
- Configuration : 24 optically isolated digital input channels
- Compatibility : TTL compatible
- Digital Input

- Number of channels : 24,each with its own ground reference isolated from other channels
- Maximum input voltage :24 VDC or 24 VAC
- Digital Logic Level

LEVEL	Minimum	Maximum
Input low voltage (DC or peak AC)	0	+/-1V
Input high voltage DC /1kHz AC	+/-2.8VDC, 4Vrms	+/-24VDC, 24VAC

- Input impedance : 1.2k
- Source Current:

5V inputs : 4mA/channel minimum
24V inputs : 20mA/channel minimum

- Response Time :20us without filter / 2.2ms with filter
- Power Supplies : +5v :336mA /maximum
- Board Dimension : 213mm x 132mm
- Operating Temperature : 0 -60°C
- Storage Temperature : -20~70°C
- Humidity : 5% to 90 % noncondensing

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Applications

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

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Ordering information

DB-24P	24-channel OPTO-22 compatible Opto-isolated Input Board Include : CA-5015 (50-pin Flat Cable 1.5m)
DB-24PD	24-channel Opto-isolated Input Board Include : CA-3710 (37-pin D-sub Cable 1.5m)
DB-24P/DIN	DB-24P with DIN-Rail Mounting
DB-24PD/DIN	DB-24PD with DIN-Rail Mounting
DB-24P CR	24-channel OPTO-22 compatible Opto-isolated Input Board (RoHS) Include : CA-5015 (50-pin Flat Cable 1.5m)
DB-24PD CR	24-channel Opto-isolated Input Board (RoHS) Include : CA-3710 (37-pin D-sub Cable 1.5m)
DB-24P/DIN CR	DB-24P with DIN-Rail Mounting (RoHS)
DB-24PD/DIN CR	DB-24PD with DIN-Rail Mounting (RoHS)

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Accessories

CA-3720	37-pin D-sub connector cable 2.0m



Non-"D" with CA-5015



"D" with CA-3710

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