NEIO-B1841



NEIO-B1841

Main Features

- Finger-safe wiring cover
- Detachable screw terminals
- Rotational pin-assignment marks
- · On-module LED indicators
- · User-friendly wiring label

- Multiple mounting methods
- 8-CH analog inputs (single-ended)
- 2-CH analog outputs (single-ended)
- 8-CH digital inputs
- 8-CH digital outputs

Product Overview

NEIO-B1841 is a cost-effective EtherCAT I/O slave module. Each NEIO-B1841 is equipped with 8-CH analog Input, 2-CH analog output, 8-CH digital input, 8-CH digital output. NEIO-B1841 provides adjustable input range of voltage and current, so that it can fulfill different application requirements. NEIO-B1841 also provides watchdog function, when it is disconnected, watchdog function can keep the module in a safe state and restore to normal operation. All of the NEIO modules are provided with high isolation protection, and verified by the EtherCAT conformance test tool.

Specifications

Analog Input

- Number of channels : 8 (single-ended)
- Input type: voltage, current
- Input range: 0~5V, 0~10V, ±5V, ±10V, 0~20mA, 4~20mA
- Resolution: 16-bit
- Sampling rate: 1 kHz/ch
- Accuracy: < ±0.3% of FSR

Analog Output

- Number of channels: 2 (single-ended)
- Output type: voltage, current
- Output range: 0~5V, 0~10V, ±5V, ±10V, 0~20mA, 4~20mA
- Resolution: 16-bit
- Accuracy
 - < ±0.2% of FSR for voltage output
 - < ±0.1% of FSR for current output

Digital Input

- Number of channels: 8 (PNP/NPN)
- Input voltage: 24 V_{DC}
- On-state voltage, "1": 9~24 V_{DC}
- Off-state voltage, "0": 0~8 V_{DC}
- Input filter: 1ms

Digital Output

- Number of channels: 8 (PNP)
- Input voltage: 24 V_{DC}
- Output load type: resistive, inductive, capacitive
- Max. output current: 500 mA/ch
- Switching time
 - Off to on: 100 us
 - On to off: 150 us

Communication

- Protocol: EtherCAT
- Bus interface: 2 x RJ-45 (daisy-chain)
- Media: Ethernet cable (min. CAT 5), shielded
- Distance between stations: maximum. 100m (100BASE-TX)
- Data transfer rate: 100M baud

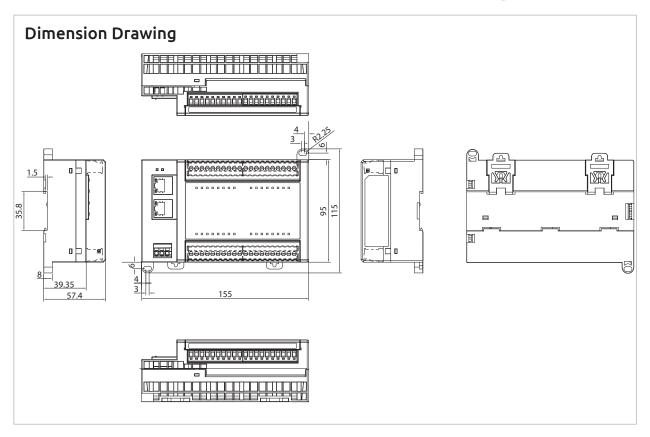
Power Requirements

 DC input range: DC 24V ±20% with over-voltage and reversed-voltage protection

NEIO-B1841

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Common Section

- Electrical isolation: 2.5 kV (power contact)
- Operating temperature: 0°C~55°C
- Storage temperature: -40°C~85°C
- Relative humidity: 5~95%, non-condensation, non-operating
- Shock: IEC 60068-2-27
- Vibration: IEC 60068-2-6, IEC 60068-2-64
- Enclosure type rating: IP20
- Mounting type: din-rail (35mm), wall-mount
- Dimesions (mm): 155 x 115 x 57.4 (W x H x D)

Certifications

- CE
- FCC Class A

Ordering Information

- NEIO-B1841 (P/N: 10J80184100X0) 8-CH AI, 2-CH AO, 16-CH DI/O EtherCAT slave module
- AC to DC din rail power supply (P/N: 7440060001X00) 60 W 24V/2.5A for NISE



Last update: 03/13/2019