

Allen-Bradley 1771-IBN

The Allen-Bradley 1771-IBN is a PLC5 Discrete Input module. This module is a DC input module which features Thirty-Two (32) input channels. It is designed to accept signal voltage range of 10-30VDC and compatible for installation in 1771 chassis such as 1771-A1B through 1771-A4B.

Technical specifications for 1771-IBN

Typical AC Signal Delay (Off) 20 (+/- 15) ms

Wiring Arm 1771-WN

Typical DC Signal Delay (Off) N/A

Typical DC Signal Delay (On) 6 (+/- 2) ms (Digital Filter)

Max DC Off-State Current 1.7 Milliampere

Backplane Current 280 Milliampere

DC Operating Voltage 10-30 Volts

Number of Inputs 32 Inputs (4 Sets of 8)

Module Type Digital DC Input Module

Part Number/Catalog No. 1771-IBN

Dimensions 3.5 x 6.5 x 2.0 in (89 x 165 x 51 mm)

Brand Allen-Bradley

Manufacturer Rockwell Automation

Off-state voltage, max 5V DC

On-state voltage, min 10V DC

Voltage Category 10-60 Volts DC, Sink (Source Load)

Coating Conformal Coat

UPC 10662468268094 Description

The Allen-Bradley 1771-IBN is a 24VDC discrete input module from the bulletin 1771 product family. This module is a Programmable Logic Controller (PLC) module that is used to interface external signaling devices such as switches, sensors, auxiliary contacts that allow flow of 24VDC voltage or signal voltage with range of 10-30VDC.

The 1771-IBN features Thirty-Two (32) input channels with nominal input range 4.7 mA @ 10VDC or 15.6 mA @ 30VDC. It has a minimum OFF-state Current of 1.7 mA @ 5VDC. Each channel of this module has an OFF-state voltage of 5VDC, maximum and ON-state voltage of 10VDC, minimum. The module's input signal delay is 6 ms +/- 2 ms low to high and high to low propagation. It has a power dissipation of 16.4 Watts, maximum and Thermal Dissipation 53.3 BTU/Hr maximum and minimum of 5.1 BTU/hr minimum dissipation. This module has a backplane current draw of 280 mA at 5VDC, maximum.

When terminating signal devices to this input module, appropriate wire size is 0.25-2.5 mm sq. (22...14 AWG) solid or stranded copper wire with insulation rating of 75 ° C (167 ° F) or greater and maximum insulation thickness of 1.2 mm (3/64 in.). It requires a field wiring arm with catalog

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number of 1771-WN with wiring arm screw Torque of 1.0 n-m. It has an open type enclosure.

The 1771-IBN consumes 32-Bit register which directly represent each channel of the module. Additionally, the 1771-IBN features Thirty-Two (32) LED indicators, dedicated for each of the input channels.

It directly controls the state of corresponding bits in the PLC data table. It provides a modular design with space-saving means to add input to a PLC control system. It comes with a 1771-WN wiring arm to replace the module eliminating the need to disconnect the wiring. It is a series C module and supports 1/2 and 1-slot I/O addressing. It is compatible with source-switching devices such as dry-contact switches, electro-mechanical transmitters, and panel-switching devices like selector switches and pushbuttons. The 1771-IBN module has 32 (4 sets of 8) inputs with a 10 - 60V DC Sink (Source load) voltage category. It has an operating voltage range of 10 - 30V DC. It has a typical signal delay of 6ms (+/-2) at On-DC state and 6ms (+/-2) at Off-DC state. It has a maximum Off-state current of 1.7mA and a backplane current load of 280mA. It has a maximum power dissipation of 15.6W and thermal dissipation of 53.3 BTU/hr. It is installed in a 1771 I/O chassis containing a PLC processor. Keying bands for putting it in the right slot are between pins 18 and 20 for the upper connector and pins 14 and 16 for the lower connector. The 1771-IBN module has 32 status indicators on the front panel. It contains optoelectrical isolation to protect the system circuits from electrical transients. It also contains an input filtering feature to reduce electrical noise.



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