

Allen-Bradley 1794-IB16 Manual

Brand	Allen-Bradley
Product Series	1746 1747
Product Type	Flex I/O Digital Input Modules

Description

The Allen-Bradley 1794-IB16 is a Flex IO discrete input module. This module features Sixteen (16) 24VDC sinking input channels. It is compatible with a variety of terminal base units such as 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK, 1794-TBKD, 1794-TB37DS. It is compatible with any 1794 Flex IO adapters to implement distributed I/O application. Technical specifications for 1794-IB16

Manufacturer Rockwell Automation

Part Number/Catalog No. 1794-IB16

Brand Allen-Bradley

Product Description: Flex IO DC Input Module

Terminal base: 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK, 1794-TBKD, 1794-TB37DS

Number of Inputs: Sixteen (16), sinking inputs

ON state Voltage, min: 19.2 VDC

ON state Voltage, max. 31.2 VDC

ON state Voltage, nom: 24 VDC

Indicators: 16 Yellow status indicators

Mounting: DIN Rail

Wire Size: Determined by installed terminal base

Operating Temperature: 0 to 55 C (32 to 131 F)

Storage Temperature: -40 to 85 C (-40 to 185 F)

Vibration: 5g @ 10 to 500 Hz

Operating Shock: 30 g

Product Type Flex I/O Digital Input Modules

Inputs 16 Current Sinking

On-state Voltage min. 10V DC

On-state Voltage max. 31.2V DC

On-state Current min. 2.0mA min.

On-state Current max. 12.0mA

Off-state Voltage max. 5V DC

Off-state Current max. 1.5mA

Nominal Input Impedance 4.6 k Ω

Flexbus Current 30mA @ 5V DC

Power Dissipation 6.1W @ 31.2V DC max.

UPC 10612598137784 Description

The Allen-Bradley 1794-IB16 is a Sixteen (16) channel 24VDC Discrete input module. This module is part of the 1794 Flex IO product family which is primarily used to implement distributed IO solution. With distributed I/O architecture, I/O modules may be installed near the source of the signal or the driven load. This significantly reduces cable runs thus, reduces overall installation costs. It also simplifies maintenance and contributes to overall increase in the control system uptime.

The 1794-IB16 support standard DIN rail mounting or direct panel mounting. This module is used with terminal base where signal wirings are terminated. Compatible terminal bases are 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK, 1794-TBKD, 1794-TB37DS.

Additionally, the 1794-IB16 requires use of a communication adapter for transferring I/O data to the partner scanner module or controller. Compatible communication adapters are DeviceNet communication adapter with catalog number 1794-ADN, Remote I/O communication adapter with catalog number 1794-ASB, Ethernet communication adapter with catalog number 1794-AENT, Profibus communication adapter with catalog number 1794-APB and ControlNet communication adapter with catalog number 1794-ACN.

The 1794-IB16 has a current draw of 30 mA @ 5V DC. The individual input channels are rated 10 to 31.2 VDC with nominal input voltage of 24VDC and supports sink wiring configuration. Each channel has a minimum On-state voltage of 10VDC and maximum of 31.2VDC while the maximum OFF-state voltage is 20VDAC. It has a power dissipation of 3.5 W @ 31.2V DC and Thermal dissipation of 11.9 BTU/hr @ 31.2V DC.

The 1794-IB16 module has 16 current sinking inputs with 24V DC nominal On-State voltage, 10-31.2V DC On-State voltage range, and 1.5mA minimum Off-State current. It has a maximum power dissipation of 6.1W at 31.2V DC. Terminal base units compatible with this module are the 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK, 1794-TBKD, 1794-TB37DS.

This module supports DIN rail or panel mounting and supports various communication adapters such as ControlNet, DeviceNet, EtherNet/IP, and Universal Remote I/O. The 1794-IB16 module has 16 yellow LEDs as status indicators for each channel. LEDs indicate corresponding input device and output signal. It also has D and XT versions of standard modules for diagnostics and extreme environments which reduces panel and maintenance costs. It has a 0 - 55 °C (32 - 131 °F) operating temperature and a 5 - 95% noncondensing relative humidity.

Technical Specifications

Manufacturer Rockwell Automation

Part Number/Catalog No. 1794-IB16

Brand Allen-Bradley

www.AutoDCSTech.com

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