

Allen-Bradley 1746 1747 Series Service Manual

1734-IB4

1. Description

The Allen-Bradley 1734-IB4 is a POINT IO module that features Four (4) sinking input channels that operates with 12/24VDC voltage category. It may be used with any POINT IO communication adapter and POINTBlock IO modules for implementing distributed I/O architecture. This Digital DC Sinking Input Module has a 1 Watt Power Dissipation with input current of 5 mA. Technical specifications for 1734-IB4

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1734-IB4
Series	POINT I/O
Module	Type Digital DC Sinking Input Module
Inputs	4
Input	Voltage 24 Volts DC
Input	Current Maximum 5 milliamps
POINTBus	Current 75 milliamps
Power	Dissipation 3.4 BTU/hour
UPC	10612598205223
Input	Filter Time 0.5 ms hardware plus 0...63 ms (user-selectable)
Dimensions	56 x 12 x 75.5 mm (2.2 x 0.47 x 2.97 in.)
Weight,	approx. 31.8 g (1.12 oz
Enclosure	type rating None (open-style)
Keyswitch	position 1 Description
The	Allen-Bradley 1734-IB4 POINT I/O is a DIN rail mountable Four (4) input channel module. Use zinc plate, yellow chromate steel DIN rail when mounting this module. Materials like aluminum or plastic may corrode or oxidize and poor conductors that may cause improper or intermittent grounding. Attach the DIN rail safely onto the installed surface approximately every 200 mm (7.8 inches) and use the anchors appropriately. All cables are made to the removable Terminal Block (

3. Product Information

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The Allen-Bradley 1734-IB4 has a maximum POINTBus current of 75 mA at 5V DC. The power dissipation of this module is 1W and the thermal dissipation is 3.4 BTU/hr. The field power voltage range of the 1734-IB4 is 10-28.8V DC while the isolation voltage is 50V (continuous). This module has a minimal on-state voltage of 10V DC. The 1734-IB4 has a nominal on-state voltage of 24V DC. This module has a maximal on-state voltage of 28.8V DC. This module has a minimal on-state current of 2 mA. This module has a nominal on-state current of 4 mA. This module has a maximal on-state current of 5 mA. This module has a maximal off-state voltage of 5V DC. The 1734-IB4 has a minimal off-state current of 1.5 mA. This module has a nominal input impedance of 3.6 kΩ. This module has a maximal input impedance of 4.7 kΩ. The weight of the 1734-IB4 is 31.8g (1.12 oz). This module has dimensions of 56 x 12 x 75.5 mm (2.2 x 0.47 x 2.97 inch). This module has 4 yellow input status indicators. The 1734-IB4 is an Allen-Bradley automation component that is used for implementing distributed I/O application for Programmable Logic Controller (PLC) based systems. This module is a Four (4) channel sinking input module that belongs to the 1734 Point IO product family. It operates

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POINT IO family, including the 1734-IB4 are low density, cost-effective modules with compact form to effectively save panel space. These are DIN rail mounted modules that offers compatibilities with different voltage categories.

The 1734-IB4 supports Two (2) wire or Three (3) wire input signals. This module consumes and produce I/O data which are made available locally via the module's local I/O register. This local I/O register is mapped onto the host controller over the selected communication network.

This input module has an intuitive front panel that indicates the Module status, Network status, Input 0, 1, 2 and 3 status. It also has a writeable area to where the node may be manually written. The module status may indicate if the device is operating normally, encountered a recoverable fault, unrecoverable fault or if the module is in self-test mode. The network status indicator may show the device is online, experiencing critical link failure, and communication fault. The I/O status simply indicates if the input signal is active or not. The 1734-IB4 requires a communication adapter from the same 1734 POINT I/O product family. The communication adapters host the network interface and the POINT IO bus that powers up the circuitry of the 1734-IB4 or any other POINT-IO module connected to it.