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Lanlily 1734-IB4

Lanlily 1734-IB4 PLC Digital DC Input Module User Manual

Model: 1734-IB4

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Lanlily 1734-IB4 PLC Digital DC Input Module. The 1734-IB4 is a 4-point digital DC input module designed for use within industrial automation systems, specifically as part of a POINT I/O system. It is engineered to receive digital input signals from various industrial devices.

2. SAFETY INFORMATION

WARNING: To prevent personal injury or equipment damage, observe the following safety precautions:

- Installation, adjustment, repair, and maintenance must be performed by qualified personnel familiar with industrial control equipment and associated hazards.
- Always disconnect power to the module and associated equipment before performing any wiring or maintenance. Follow proper lockout/tagout procedures.
- Ensure all wiring conforms to local and national electrical codes.
- Do not operate the module in environments exceeding its specified temperature, humidity, or vibration limits.

3. PRODUCT OVERVIEW

The 1734-IB4 is a compact digital input module that integrates into a POINT I/O system. It features four 24VDC sink inputs, allowing it to detect the presence or absence of a 24VDC signal from field devices. Status indicators on the front panel provide visual feedback on the module's operational state and network connectivity.



Figure 3.1: This image displays the front panel of the 1734-IB4 module. Visible are the LED indicators for Module Status and Network Status, a NODE indicator, and four input terminals labeled 0 through 3, designed for 24VDC sink input.

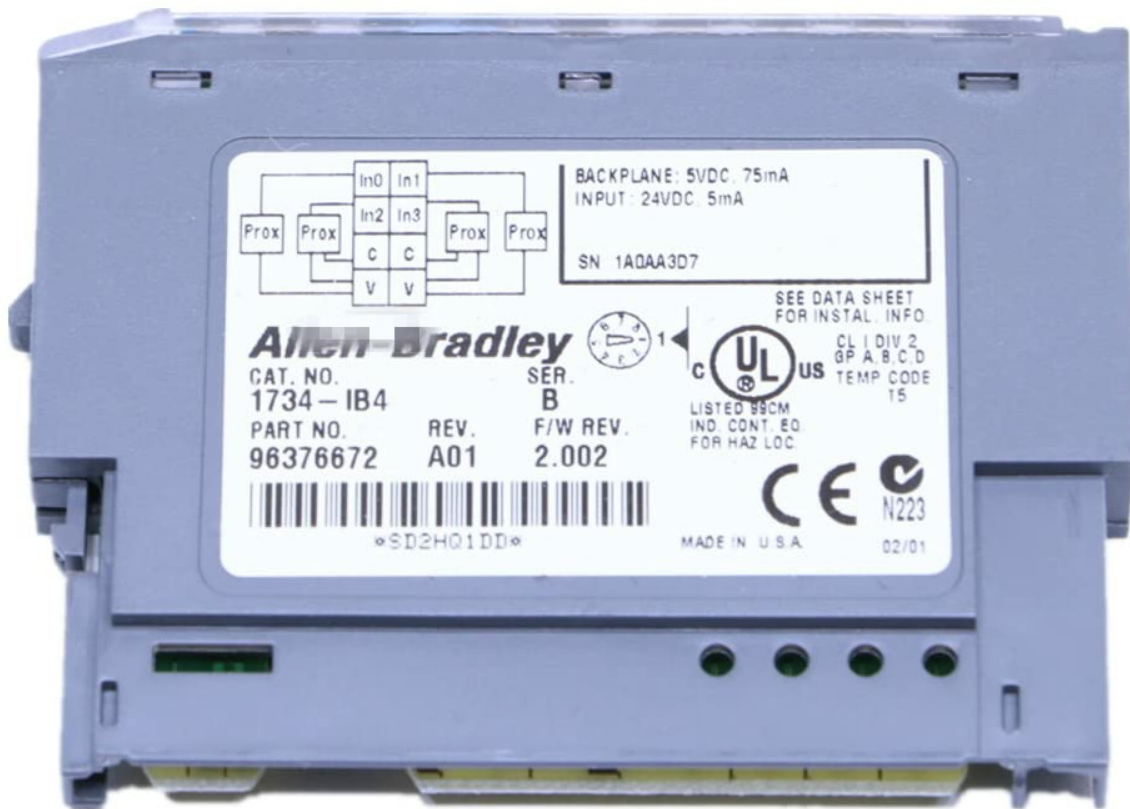


Figure 3.2: This image shows the top and rear connection details of the 1734-IB4 module. Key information includes the Allen-Bradley branding, the catalog number 1734-IB4, part number 96376672, and serial number SD2HQ1DD. It also displays electrical specifications like Backplane: 5VDC, 75mA and Input: 24VDC, 5mA, along with UL and CE certifications. The serial number SD2HQ1DD is a unique identifier for this unit.



Figure 3.3: An alternative front view of the 1734-IB4 module, providing another perspective on the Module Status, Network Status, NODE indicator, and the 24VDC Sink Input terminals.

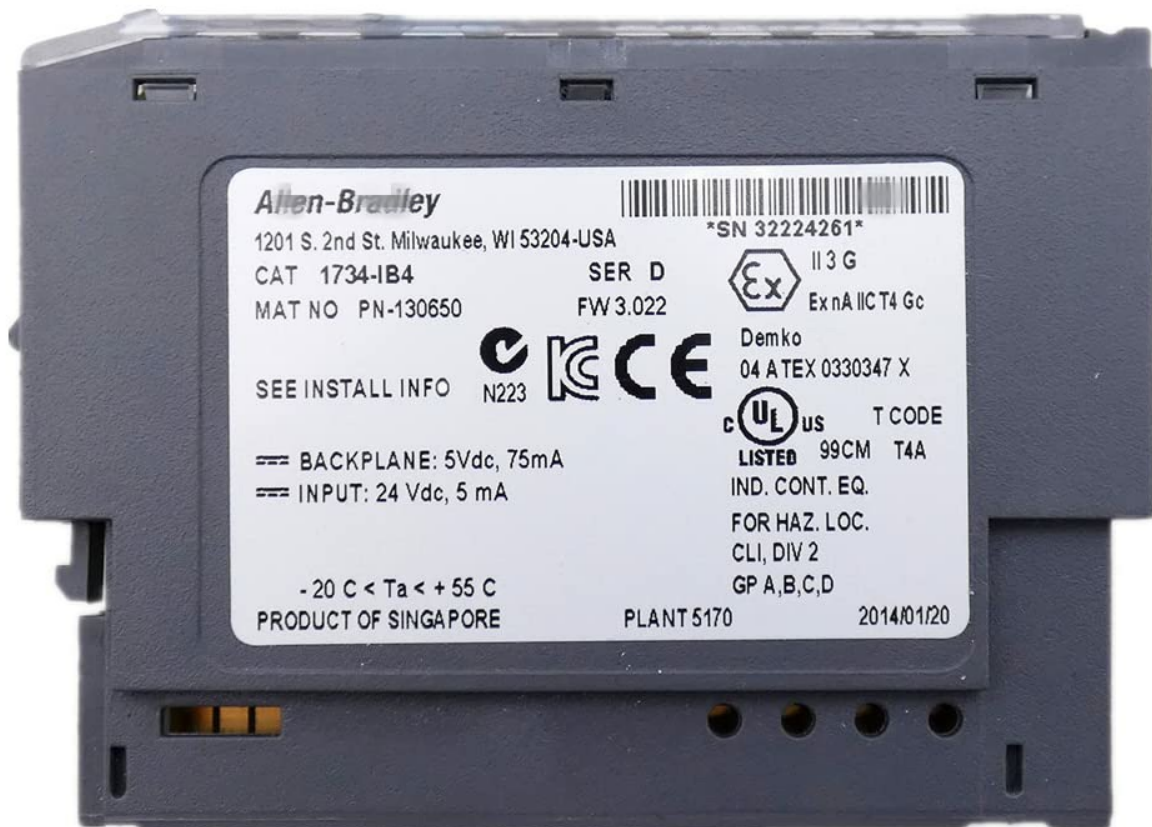


Figure 3.4: This image presents the bottom and rear connection area of the 1734-IB4 module. It features Allen-Bradley branding, catalog number 1734-IB4, and serial number 32224261. Environmental and electrical specifications are visible, including input voltage and current, operating temperature range (-20 C < Ta < +55 C), and various certifications such as Ex, UL, and CE. The serial number 32224261 is a unique identifier for this unit.



Figure 3.5: This image shows the packaging box for the 1734-IB4 module. The label indicates it is a Rockwell Automation / Allen-Bradley POINT I/O 4 Point Digital Input Module, with CAT 1734-IB4 and MAT NO PN-130650. It also displays a serial number (755818), manufacturing location (PRODUCT OF SINGAPORE), and various compliance marks like EAC and CE.

4. SETUP

4.1. Mounting

The 1734-IB4 module is designed for tool-less installation onto a POINT I/O mounting base. Ensure the mounting base is securely attached to a DIN rail. Align the module with the base and press firmly until it clicks into place. Verify that the module is seated correctly and locked.

4.2. Wiring

Connect the 24VDC sink input signals to the terminals labeled 0, 1, 2, and 3 on the front of the module. Refer to the system's wiring diagrams and the module's data sheet for specific terminal assignments and recommended wire gauges. Ensure proper grounding and shielding practices are followed to minimize electrical noise.

4.3. Powering On

After all wiring is complete and verified, apply power to the POINT I/O system. Observe the status indicators on the module to confirm proper initialization.

5. OPERATING

The 1734-IB4 module operates by detecting the presence or absence of a 24VDC signal at its input terminals. The status of each input is communicated to the PLC controller via the backplane. The module's LEDs provide immediate visual feedback:

- **Module Status LED:** Indicates the operational status of the module (e.g., green for normal operation, red for fault).
- **Network Status LED:** Indicates the communication status with the network adapter (e.g., green for connected, flashing for activity).
- **Input Channel LEDs:** Individual LEDs for each input (0-3) illuminate when a corresponding input signal is detected.

For detailed programming and configuration, refer to the documentation for your specific PLC controller and the POINT I/O system.

6. MAINTENANCE

The 1734-IB4 module is designed for minimal maintenance. Regular inspection is recommended to ensure optimal performance.

- **Cleaning:** Keep the module free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check all wiring connections for tightness and signs of wear or corrosion. Ensure the module is securely mounted.
- **Firmware:** If firmware updates are available for the POINT I/O system, follow the manufacturer's instructions carefully.

7. TROUBLESHOOTING

If the 1734-IB4 module is not functioning as expected, consider the following:

- **No Power/Module Status LED Off:** Verify that power is supplied to the POINT I/O system and the module is correctly seated. Check the power supply for the system.
- **Network Status LED Off/Red:** Check network cable connections and the network adapter module. Ensure proper network configuration.
- **Input Not Registering:** Verify the 24VDC input signal is present at the terminal. Check wiring continuity from the field device to the module. Ensure the field device is functioning correctly.
- **Module Status LED Red:** Indicates a fault. Refer to the PLC controller's diagnostic tools and the module's data sheet for specific fault codes and remedies.

For advanced diagnostics, consult the detailed product documentation provided by the original manufacturer (Allen-Bradley) or contact technical support.

8. SPECIFICATIONS

Parameter	Value
Model Number	1734-IB4
Module Type	Digital DC Input Module
Input Type	4-point, 24VDC Sink Input
Input Voltage (Nominal)	24VDC
Input Current (per point)	5mA
Backplane Current	5VDC, 75mA
Operating Temperature	-20°C to +55°C
Certifications	UL, CE, Ex
Manufacturer	Lanlily (compatible with Allen-Bradley POINT I/O systems)
Date First Available	July 29, 2022

9. WARRANTY AND SUPPORT

This Lanlily 1734-IB4 PLC Digital DC Input Module comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further inquiries, please contact your vendor or the Lanlily customer service department. Ensure you have your product model number and purchase details available when contacting support.