

## Allen-Bradley 1734-IB8S

The Allen-Bradley 1734-IB8S is a POINT I/O Guard I/O Safety Module. It has Eight (8) Current Sinking Safety Input channels and Four (4) Current Sourcing Pulse Test Outputs. It requires a nominal supply voltage of 24VDC. Technical specifications for 1734-IB8S

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1734-IB8S

Series POINT I/O

Module Type Guard I/O Safety Module

Input Type Current Sinking

Enclosure Type Open

Number of Inputs Eight (8) Inputs

No. of Pulse Test Outputs Four (4) Pulse Test Outputs

Operating Supply Voltage 24 Volts DC (nom)

Available Series A and B

Weight 2.2 ounces

UPC 10612598350619

Dimensions 3.03 x 0.98 x 2.17 (inches)

Power Dissipation 3.4 Watts

Terminal Bases 1734-TOP or 1734-TB

Key Switch Position Key 1 (left) Position 8, Key 2 (Right) Position 1

Temperature vs Current Derating 2.8A at 20 Celsius Description

The 1734-IB8S is an Allen-Bradley manufactured module used in applications with Safety Instrumentation Level (SIL) requirements. This module is a POINT Guard IO Safety module with Eight (8) Current Sinking Input Channel and Four (4) pulse Current Sourcing Pulse Test Outputs.

This module is typically used in applications that perform safety applications such as Emergency Stop Push Button, Gate Switches, Light Curtains and other safety devices may be connected to this module. It features a channel with Dual-channel mode capability for evaluating consistency of Two (2) input signals which enables the module to be used in applications that with Safety Category 3 and 4.

The 1734-IB8S may also be used in Single-Channel mode. This mode evaluates single signal which then allows the module to be used in application with Safety Category 2.

It has a configurable discrepancy time, that is used to determine the acceptable discrepant time between 2 channels before a fault is declared by the module. It also has an external wiring short check that is enables when input channels are wired in combination with test outputs. Each channel of this safety module has individually adjustable ON and OFF signal delay which is used

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to prevent false positive and false negative readings caused by signal fluctuation.

The 1734-IB8S has a maximum thermal dissipation of 11.62 BTU/hour and it weighs 62.4 grams or 2.2 ounces. It has a nominal input voltage of 24 Volts DC, an input current maximum of 175 mA, and a 3.4 W maximum power dissipation. The 1734-IB8S works with SmartGuard, GuardLogix, and Compact GuardLogix controllers and it is used in POINT I/O platforms to administer CIP safety protocol extensions. The 1734-IB8S operates at 19.2 to 28.8 Volts DC. It also has a maximum power bus current (no load) of 25 mA, and a continuous isolation voltage of 50 Volts.

The 1734-IB8S measures 77 x 25 x 55 millimeters or 3.03 x 0.98 x 2.17 inches, and it has 8 inputs per module and a current sinking input type with each channel having a 16.2 milliseconds reaction time. The 1734-IB8S module is available in Series A and B. It has an open-style enclosure type and can be mounted horizontally or vertically. The 1734-IB8S can communicate over Ethernet/IP and DeviceNet networks via the 1734-AENT, 1734-AENTR, or 1734-PDN network adapters.



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