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Data Sheet

August 13, 2026

ROCKWELL / ALLEN-BRADLEY

Rockwell / Allen-Bradley 1794-IA8 FLEX I/O 120 VAC 8 Input Module

Key Features 8 non-isolated 120 Vac inputs 65 Vac min on, 43 Vac max off 12 mA nom at 120 Vac 60 Hz Snaps onto 1794 terminal base on DIN rail Technical Specifications Model: 1794-IA8 Manufacturer: Allen-Bradley / Rockwell Automation Instrument Type: FLEX Discrete AC Input Module Series: 1794 FLEX I/O Alias: 1794-IA8; 1794IA8 Inputs: 8 non-isolated Nominal Voltage: 120 Vac Operating Voltage: 85 to 132 Vac Input Frequency: 47 to 63 Hz On State Voltage Min: 65 Vac On State Voltage Max: 132 Vac Off State Voltage Max: 43 Vac On State Current Min: 7.1 mA On State Current Max: 14.32 mA Off State Current Min: 2.9 mA Nominal Input Current: 12 mA at 120 Vac 60 Hz Flexbus Current: 30 mA at 5 Vdc Power Dissipation Max: 4.5 W at 132 Vac (user manual table); 3.5 W at 132 Vac on 1794-IN009 Thermal Dissipation Class: 1.



MODEL

Rockwell / Allen-Bradley 1794-IA8

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1794-IA8

LISTING

<https://aumictechlabs.com/products/1794-ia8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Allen-Bradley 1794-IA8 is a FLEX I/O discrete AC input module that integrates eight 120 VAC input points into Rockwell Automation control systems. Each channel includes electronic fuse protection rated at 0.5 A and individual LED status indicators for real-time operational feedback. Designed for industrial environments, the module delivers 5 mA typical input current at nominal

voltage and provides 2500V AC isolation between module and backplane. Technical Specifications

Input Characteristics Nominal input voltage: 120 VAC Input current: 5 mA typical at 120 VAC ON state voltage range: 79–132 VAC (50/60 Hz) OFF state voltage range: 0–20 VAC (50/60 Hz) Input impedance: 26 k Ω typical at 120 VAC Input delay ON to OFF: 8 ms typical Input delay OFF to ON: 30 ms typical Module-to-backplane isolation: 2500V AC, 1 sec. Backplane current draw: 100 mA typical at 5 VDC

Protection & Indicators Electronic fuse per input: 0.5 A typical Individual LED status indicator per input

Environmental Operating temperature: –20°C to 55°C (–4°F to 131°F) Storage temperature: –40°C to 85°C (–40°F to 185°F) Relative humidity: 5% to 95% non-condensing Vibration: 5 G @ 10–500 Hz Shock: 30 G @ 11 ms Enclosure: Open style, suitable for industrial cabinet mounting

Key Features Eight discrete 120 VAC input channels Electronic fuse overcurrent protection on each channel Per-channel LED status indication 2500V AC galvanic isolation between module and system backplane Compliant with 50/60 Hz AC line frequencies Rugged industrial environmental specifications

Compatibility & Integration The 1794-IA8 integrates with Rockwell Automation ControlLogix, MicroLogix, and SLC 500 programmable logic controllers through the FLEX I/O backplane architecture. The module operates as a discrete I/O node within distributed automation systems.

1794IA8 Characteristics / Specifications

PARAMETER	VALUE
Model	1794-IA8
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	FLEX Discrete AC Input Module
Series	1794 FLEX I/O
Alias	1794-IA8; 1794IA8
Inputs	8 non-isolated
Nominal Voltage	120 Vac
Operating Voltage	85 to 132 Vac
Input Frequency	47 to 63 Hz
On State Voltage Min	65 Vac
On State Voltage Max	132 Vac
Off State Voltage Max	43 Vac
On State Current Min	7.1 mA
On State Current Max	14.32 mA
Off State Current Min	2.9 mA
Nominal Input Current	12 mA at 120 Vac 60 Hz
Flexbus Current	30 mA at 5 Vdc
Power Dissipation Max	4.5 W at 132 Vac (user manual table); 3.5 W at 132 Vac on 1794-IN009
Thermal Dissipation Class	1.9 BTU/hr at 132 Vac on 1794-IN009
Isolation Voltage	2150 Vdc for 1 s system to user
Filter On Delay	8.4 ms class
Filter Off Delay	26.4 ms class
Indicators	8 yellow status LEDs
Mounting	snaps onto 1794 terminal base on DIN rail
Enclosure	open style, IP20

PARAMETER	VALUE
Wire Size	22 to 12 AWG stranded copper class
Operating Temperature	minus 20 C to +55 C class FLEX
Related IA8I	individually isolated 8-point sibling
Related IA	16-point 120 Vac sibling (74 Vac min on-state)
Publication	1794-IN009 installation; 1794-IA8/IA8I/IA16 user manual
Status	FLEX catalog item Notes Specs from Rockwell 1794-IN009 and 1794-IA8/IA8I/IA16 user-manual tables. Power dissipation is 3.5 W on IN009 and 4.5 W on the later user-manual table; use the sheet that matches the series letter. Confirm terminal base (TB3 class for 8-point AC).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to +55 C class FLEX
Operating Temperature	minus 20 C to +55 C class FLEX
Related IA8I	individually isolated 8-point sibling
Related IA	16-point 120 Vac sibling (74 Vac min on-state)
Publication	1794-IN009 installation; 1794-IA8/IA8I/IA16 user manual
Status	FLEX catalog item Notes Specs from Rockwell 1794-IN009 and 1794-IA8/IA8I/IA16 user-manual tables. Power dissipation is 3.5 W on IN009 and 4.5 W on the later user-manual table; use the sheet that matches the series letter. Confirm terminal base (TB3 class for 8-point AC).

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	1794-IA8
Manufacturer	Allen-Bradley / Rockwell Automation
Instrument Type	FLEX Discrete AC Input Module
Specifications	
PARAMETER	VALUE
Series	1794 FLEX I/O
Alias	1794-IA8; 1794IA8
Inputs	8 non-isolated
Specifications	
PARAMETER	VALUE
Nominal Voltage	120 Vac
Operating Voltage	85 to 132 Vac
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Specifications

PARAMETER	VALUE
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PARAMETER	VALUE
Filter Off Delay	26.4 ms class
Indicators	8 yellow status LEDs
Mounting	snaps onto 1794 terminal base on DIN rail

Specifications

PARAMETER	VALUE
Enclosure	open style, IP20
Wire Size	22 to 12 AWG stranded copper class
Operating Temperature	minus 20 C to +55 C class FLEX

Specifications

PARAMETER	VALUE
Related IA8I	individually isolated 8-point sibling
Related IA16	16-point 120 Vac sibling (74 Vac min on-state)
Publication	1794-IN009 installation; 1794-IA8/IA8I/IA16 user manual

Status: FLEX catalog item

Notes

Specs from Rockwell 1794-IN009 and 1794-IA8/IA8I/IA16 user-manual tables. Power dissipation is 3.5 W on IN009 and 4.5 W on the later user-manual table; use the sheet that matches the series letter. Confirm terminal base (TB3 class for 8-point AC).

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.