

Allen-Bradley 1794-OB16

"The Allen-Bradley 1794-OB16 is a Flex IO discrete output module. This module features Sixteen (16) 24VDC sourcing output channels. It is compatible with a variety of terminal base units such as 1794-TB2, 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK. It is compatible with any 1794 Flex IO adapters to implement distributed I/O application. Technical specifications for 1794-OB16

Manufacturer Rockwell Automation

Part Number/Catalog No. 1794-OB16

Brand Allen-Bradley

Product Description: Flex IO DC Output Module

Number of Outputs: 16, sourcing

Specifications

- * **Number of Outputs:** 16 (1 group of 16), non-isolated, sourcing
- * **Module Location:** Cat. No. 1794-TB2, -TB3, or -TB3S Terminal Base Unit
- * **ON-State Voltage Range:** 10V dc minimum, 24V dc nominal, 31.2V dc maximum
- * **ON-State Voltage Drop:** 0.5V dc maximum
- * **ON-State Current:** 1.0mA minimum per channel, 500mA maximum per channel
- * **OFF-State Voltage:** 31.2V dc maximum
- * **OFF-State Leakage:** 0.5mA maximum
- * **Isolation Voltage (min):** 100% tested at 850V dc for 1s between user and system; No isolation between individual channels

Output Signal Delay

- * **OFF to ON:** 0.5ms maximum
- * **ON to OFF:** 1.0ms maximum
- * **Flexbus Current (max):** 80mA
- * **Power Dissipation:** 5.3W maximum @ 31.2V
- * **Thermal Dissipation:** 18.1 BTU/hr @ 31.2V dc
- * **Indicators (field side indication, logic driven):** 16 yellow status indicators
- * **Output Current Rating:** 8A (16 outputs @ 0.5A) horizontal or vertical
- * **Surge Current:** 2A for 50ms, repeatable every 2 seconds
- * **Keyswitch Position:** 2
- * **Fusing:** SAN-O MQ4-800mA

General Specifications

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- * **External dc Power Supply Voltage:** 24V dc nominal
- * **Voltage Range:** 19.2 to 31.2V dc (includes 5% ac ripple)
- * **Supply Current:** 49mA @ 24V dc (38mA to 65mA)
- * **Dimensions HxWxD:** 46mm x 94mm x 53mm (1.8in x 3.7in x 2.1in)

Environmental Conditions

- * **Operational Temperature:** 0 to 55° C (32 to 131° F)
- * **Storage Temperature:** -40 to 85° C (-40 to 185° F)
- * **Relative Humidity:** 5 to 95% noncondensing
- * **Shock (Operating):** 30g peak acceleration, 11($\pm$ 1)ms pulse width
- * **Shock (Non-operating):** 50g peak acceleration, 11($\pm$ 1)ms pulse width
- * **Vibration:** Tested 5g @ 10-500Hz per IEC 68-2-6

Description

The Allen-Bradley 1794-OB16 module is a digital DC output module for FLEX I/O. It has 16 current sourcing outputs. The minimum, maximum, and nominal on-state voltages are 10 Volts DC, 31.2 Volts DC, and 24 Volts DC, respectively. The output current rating of all the 16 outputs (each rated at 0.5 Amps) is 8 Amps while the minimum on-state current is 1 milliamp per channel and the maximum on-state current is 500 milliamps per channel. The maximum on-state voltage drop is 0.5 Volts DC. The surge current is 2 Amps for 50 milliseconds and it is repeatable every 2 seconds. The maximum off-state leakage current is 0.5 milliamps. The isolation voltage is 50 Volts continuous. The module has been tested at 850 Volts DC for 1 second between the users and the system.

The output signal delay for the 1794-OB16 module is 0.5 milliseconds for off-to-on and it is 1 millisecond for on-to-off. The FlexBus current is 80 milliamps at 5 Volts DC leading to 5.3 Watts of maximum power dissipation at 31.2 Volts DC. The thermal dissipation of the 1794-OB16 module is 18.1 BTU per hour. The maximum off-state voltage is 31.2 Volts DC. The module dimensions are 3.7 x 3.7 x 2.7 inches. The approximate weight for the 1794-OB16 module is 78 grams. The module has 16 yellow indicators for field-side status indication. The wiring size depends on the installed terminal base. The module has an open enclosure and it complies with the T3 IEC temperature code. The operating temperature range is from -4 to 131 degrees Fahrenheit.

This module comes with Sixteen (16) channel 24VDC Discrete output channels that supports source wiring configuration. It is used with a terminal base and supports a variety of terminal base such as 1794-TB2,1794-TB3,1794-TB3S, 1794-TB3K and1794-TB3SK. The Up to Eight (8) instances of 1794-OB16 may be installed in a single Flex I/O rack. Additionally, the 1794-OB16 may also be used as local I/O adapter of FlexLogix Controller or the FlexLogix Local IO extender (1794-FLA). This module has a keyswitch position 2 and has an open-type enclosure rating.

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The 1794-OB16 deliver output an output voltage range of 10 to 31.2VDC with nominal Voltage output of 24VDC. It measures 94 x 94 x 69 mm (3.7 x 3.7 x 2.7 in.) and weighs 78 g (2.75 oz.). This module does not come with internal fusing therefore, external fusing may be installed, as required by the system. Recommended fuse for installation of external fusing is SAN-O MQ4-800 mA fuses. This module is provided with Sixteen (16) fields side LED indicators.

The 1794-OB16 has an Operating Temperature range of 0 to 55 ° C (32 to 131 ° F), and storage temperature of 55 ° C (131 ° F) with shock and vibration rating of 30g and 5 g @ 10 to 500 Hz, respectively. This module carries c-UL-us, CSA, CE, Ex, TÜV, KC, EAC and RCM certifications.

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