

Allen-Bradley 1794-OB16P Manual

Brand	Allen-Bradley
Product Series	1746 1747
Product Type	Flex I/O Digital DC Output Module

Description

The Allen-Bradley 1794-OB16P is a Flex I/O discrete output module. This module has Sixteen (16) Current sourcing outputs, providing 24VDC voltage output. Each channel of this module are electronically protected. Compatible terminal bases for this module are 1794-TB2, 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK. Technical specifications for 1794-OB16P

Manufacturer Rockwell Automation

Flexbus Current 60 mA @ 5V DC

Power Dissipation 5.0 W @ 31.2V DC

Thermal Dissipation 17.0 BTU/hr @ 31.2V DC

Brand Allen-Bradley

Product Description: Flex IO 24VDC Output Module

Number of Inputs: 16, sourcing; electronically fused

Terminal base: 1794-TB2, 1794-TB3, 1794-TB3S, 1794-TBKD

ON state Voltage, min: 10VDC

ON state Voltage, max. 31.2VDC

ON state Voltage, nom: 24VDC

Indicators: 16 Yellow status indicators

Mounting: DIN Rail

Wire Size: Determined by installed terminal base

Operating Temperature: 0 to 55 C (32 to 131 F)

Storage Temperature: -40 to 85 C (-40 to 185 F)

Vibration: 5g @ 10 to 500 Hz

Operating Shock: 30 g

Part Number/Catalog No. 1794-OB16P

Product Type Flex I/O Digital DC Output Module

Outputs 16 Sourcing Current

On-state Voltage nom. 24V DC

Output Current Rating 8.0A

On-state Current max. 500mA per Channel

On-state Voltage Drop max. 0.5V DC

Off-state Leakage Current max. 0.5mA

Isolation Voltage 50V Continuous

UPC 10612598179968 Description

The Allen-Bradley 1794-OB16P is a Flex I/O module that functions as a Discrete output module. This module is used to energize electrical components that operate in 24VDC voltage categories such as indicator light and lamps, solenoid actuated devices, relay coils, and other field instruments.

The 1794-OB16P has Sixteen (16) electronically fused output channels, supporting source wiring configuration. Each channel has a minimum output rating of 1.0 mA and maximum of 500 mA per channel. Each channel is capable of withstanding surge current of 2 A for 50 ms, repeatable for every 2 seconds.

The 1794-OB16P internal circuitry is energized via the Flex I/O bus. It requires a FlexBus current of 60 mA @ 5V DC and with maximum power dissipation of 5.0 W @ 31.2V DC and thermal dissipation of 17.0 BTU/hr @ 31.2V DC. Each channel is equipped with electronic fusing.

This module requires a terminal base for installation. The terminal base provides DIN rail attachment and I/O termination points. Compatible terminal bases are 1794-TB2, 1794-TB3, 1794-TB3S, 1794-TB3K, 1794-TB3SK.

The 1794-OB16P is compatible with Flex I/O communication adapters such as Ethernet, ControlNet, Profibus, Remote I/O communication adapters. It may also be mixed with any type of Flex I/O modules to implement distributed I/O architecture and implement manual and automatic control of machines and processes. It can operate as distributed I/O component of Logix controllers such as ControlLogix and CompactLogix as well as legacy controllers including PLC5 and SLC500 controllers. The configuration of the 1794-OB16P module depends on the controller used.

The 1794-OB16P is compatible with communication adapters including ControlNet, DeviceNet, PROFIBUS, and EtherNet/IP. The 1794-OB16P module uses screw clamp terminations and it can only be mounted on a DIN rail and only use terminal base units such as 1794-TB3, 1794-TB3K, 1794-TB2, 1794-TBN, 1794-TBNK, 1794-TB3S, and the 1794-TB3SK. It requires an external DC supply voltage range of 10 to 31.2 Volts DC, with the 5% AC ripple and an external DC supply current range of 25 to 75 mA. The module's ON-state output voltage drop is 0.5 Volts DC. The minimum current on-state output is 1 mA per channel and the maximum is 500 mA per channel or 8 Amps per module. This module also has a leakage current of 0.5 mA for off-state output and a maximum output surge current of 1.5 Amps for 50 milliseconds that is repeatable every 2 seconds. This module does not have any isolation between the individual channels. The 1794-OB16P's output delay is 0.5 milliseconds in the OFF to ON state and 1 milliseconds in the ON to OFF state. The maximum power dissipation is 5 W at 31.2 Volts DC, the thermal dissipation is 17 BTU/hour at 31.2 Volts DC, and the maximum Flexbus current is 60 mA. The 1794-OB16P module has an operating temperature of 0 to 55 degrees Celsius and a storage temperature of -40 to 85 degrees Celsius and comes with a non-condensing relative humidity of 5 to 95%. It also has an operating vibration of 30g and a non-operating vibration of 50g. Its vibration is 5g at 10 to 500 Hertz.

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Technical Specifications

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