

Allen-Bradley 1746 1747 Series Service Manual

1762-OB16

1. Description

The Allen-Bradley 1762-OB16 is a MicroLogix Expansion I/O module. This module is a Solid State output module that comes with Sixteen (16) 24VDC output channels supporting sourcing wiring configuration. This module is externally powered by an input supply Voltage range of 20.4-26.4VDC. It may be used with MicroLogix 1100, MicroLogix 1200 and MicroLogix 1400 product family. Technical specifications for 1762-OB16

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Product	Type Discrete Output Module
Part	Number/Catalog No. 1762-OB16
Brand	Allen-Bradley
No.	of Inputs: 16
No.	of Groups: 1 groups
Output	Groups: Group 1: Outputs 0...15
No.	of installation: Four (4) with MicroLogix 1100; Six (6) with MicroLogix 1200; Seven (7) with MicroLogix 1400.
Voltage	Category: 24VDC
Output	Voltage Range: 20.4-26.4VDC
Compatible	Controllers: MicroLogix 1100, 1200 and 1400
Signal	delay, On: 0.1 ms
Signal	Delay, Off: 1.0 ms
Bus	current draw, max: 175 mA @ 5V DC (0.88W)
Series	MicroLogix 1200
Outputs	(16) Sourcing
Mounting	DIN Rail
Input	Power 24 Volts DC
Operating	Voltage Range 20 to 26.4 Volts DC
Maximum	Surge Current 2.0 A
Maximum	Bus Current Draw 175 mA at 5 Volts DC
Maximum	Operating Altitude 2000 meters
UPC	10611320320579
UNSPSC	32151601 Description
The	Allen-Bradley 1762-OB16 is a MicroLogix I/O expansion module. This module is compatible for use with MicroLogix 1100, MicroLogix 1200 and MicroLogix 1400 product family. It is

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Product Type Discrete Output Module

Part Number/Catalog No. 1762-OB16

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No. of Inputs: 16

No. of Groups: 1 groups

Output Groups: Group 1: Outputs 0...15

No. of installation: Four (4) with MicroLogix 1100; Six (6) with MicroLogix 1200; Seven (7) with MicroLogix 1400.

Voltage Category: 24VDC

Output Voltage Range: 20.4-26.4VDC

Compatible Controllers: MicroLogix 1100, 1200 and 1400

Signal delay, On: 0.1 ms

Signal Delay, Off: 1.0 ms

Bus current draw, max: 175 mA @ 5V DC (0.88W)

Series MicroLogix 1200

Outputs (16) Sourcing

Mounting DIN Rail

Input Power 24 Volts DC

Operating Voltage Range 20 to 26.4 Volts DC

Maximum Surge Current 2.0 A

Maximum Bus Current Draw 175 mA at 5 Volts DC

Maximum Operating Altitude 2000 meters

UPC 10611320320579

UNSPSC 32151601 Description

The Allen-Bradley 1762-OB16 is a MicroLogix I/O expansion module. This module is compatible for use with MicroLogix 1100, MicroLogix 1200 and MicroLogix 1400 product family. It is primarily used to provide additional output channels via the Sixteen (16) 24VDC source output channels.

The 1762-OB16 supports sourcing wiring configuration. It is specifically a solid-state output module that delivers an output voltage range of 20.4 - 26.4 VDC. Output modules, such as the 1762-OB16 is generally used to energize discrete actuating devices such as solenoid and motorized actuating devices, pilot lamps, siren, horn, buzzer, relay coils, motor starters and other similar devices.

The 1762-OB16 has a signal delay time of 0.1 ms before switching ON and 1.0 ms before switching OFF. Each point has a continuous current rating of 0.5A @ 55 °C (131 °F) and 1.0A @ 30 °C (86 °F) with continuous Current per module of 4.0A @ 55 °C (131 °F) and 8.0A @ 30 °C (86 °F) with Surge Current rating of 2.0 A (Repeatability is once every 2 s @ 55 °C (131 °F), once every second @ 30 °C (86 °F) for a duration of 10 ms.).

The 1762-OB16 has a power supply distance rating of Six (6) modules. Therefore, it must not be installed Six (6) modules away from the power supply. Alternatively, a power supply may be installed to accommodate more than 6 modules.

The number of installation instances of the 1762-OB16 varies depending on the controller. Up to Four (4) Expansion I/O is supported by MicroLogix 1100, Six (6) by MicroLogix 1200 and Seven (7) modules may be installed with a MicroLogix 1400.

The 1762-OB16 is an ideal solution for controller applications that require more I/O than the built-in ones the controller comes with. The 1762-OB16 Source Output Module expands the number of I/O and it has a voltage category of 24 VDC with a maximum surge current of 2.0 A, a maximum bus current draw of 175 mA at 5 Volts DC (0.88 Watts), and a maximum continuous current of 4.0 A at 55 degrees Celsius (131 degrees Fahrenheit)/ 8.0 A at 30 degrees Celsius (86 degrees Fahrenheit) per module.

The 1762-OB16 comes with Sixteen (16) digital outputs and one common output. This I/O module can be panel or DIN rail-mounted. A DIN rail end anchor is required for high vibration environments. Mount the 1762-OB16 to a well-grounded surface and maintain clearance from the adjacent equipment, enclosure walls, and the wireways. All sides should have 2 inches (50.8 millimeters) of space for adequate ventilation. The ideal maximum operating altitude for the 1762-OB16 is 2000 m (6561 feet) with humidity between 5 to 95% non-condensing.