

Allen-Bradley 1756 Series Service Manual

1756-IV16

1. Description

The Allen-Bradley 1756-IV16 digital sourcing I/O module is manufactured by Allen-Bradley/Rockwell Automation. The 1756-IV16 input module comes with 16 inputs available in 2 groups, and 8 points in a group. It is compatible and it works with the ControlLogix 1756 chassis, it needs a detachable terminal block frame, or RTB, that can be the 1756-TBSH or the 1756-TBNH, before attaching it to the chassis. Only the input data format can be used by this module. The operating voltage for the 1756-IV16 m

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-IV16
Series	ControlLogix
Module	Type Digital DC Input Module
Inputs	16
Input	Voltage 12-24 Volts DC
Operating	Voltage Range 10-30 Volts DC
Input	Delay Time 2 milliseconds plus selected filter time
Minimum	Operating Current 2 milliamps at 10 Volts DC
Maximum	Operating Current 10 milliamps at 30 Volts DC
Maximum	Input Current, Off-State 1.5 milliamps
Power	Dissipation (Max) 5.41 Watts at 60 degrees Celsius
Backplane	Current at 5 Volts 110 milliamps
Backplane	Current at 24 Volts 2 milliamps
UPC	10612598264343 Description
The	Allen-Bradley 1756-IV16 is a digital sourcing I/O module. This input module has 16 inputs available, with 8 points in a group. Compatible with the ControlLogix 1756 chassis, it requires a removable terminal block housing, or RTB, which can either be the 1756-TBNH or 1756-TBSH before it can be attached to the chassis. Only an input data format is used by this module. The operating voltag

3. Product Information

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The Allen-Bradley 1756-IV16 digital sourcing I/O module is manufactured by Allen-Bradley/Rockwell Automation. The 1756-IV16 input module comes with 16 inputs available in 2 groups, and 8 points in a group. It is compatible and it works with the ControlLogix 1756 chassis, it needs a detachable terminal block frame, or RTB, that can be the 1756-TBSH or the 1756-TBNH, before attaching it to the chassis. Only the input data format can be used by this module. The operating voltage for the 1756-IV16 module ranges between 10 and 30 Volts DC. It has a 12 to 24 Volts DC source voltage category, with a nominal input voltage of 24 Volts DC. The total backplane power is 0.61 Watts, with a maximum inrush current of 250 mA.

The 1756-IV16 module has a maximum input impedance of 3.2 kΩ at 30 Volts DC, and a maximum power dissipation of 5.1 Watts at 60 degrees Celsius, with a thermal dissipation of 18.47 BTU/hour. The module structures a continuous isolation voltage of 250 Volts. In an off-state, the 1756-IV16 has a maximum voltage of 5 Volts DC as well as a maximum current of 1.5 mA. When the module is in an on-state, it has a current range of as low as 2 mA at 10 Volts DC and a maximum of 10 mA at 30 Volts DC. The 1756-IV16 module comes equipped with a screw to the backplane input delay time. The variation depends on whether it is going from 'off' to 'on' or vice versa. When going from 'off' to 'on', the input delay time is the hardware delay with a nominal time of 280 microseconds along with a maximum time of 1 millisecond plus the user-selectable filter time (which is either 0 milliseconds, 1 millisecond, or 2 milliseconds). When going from 'on' to 'off', the input delay time is the hardware delay time has a nominal of 540 microseconds along with a maximum of 2 milliseconds. In addition, there is the user-selectable filter time (1 millisecond, 2 milliseconds, 9 milliseconds, or 18 milliseconds). Allen Bradley ControlLogix Digital DC Input Module with 16 Inputs Technical specifications for 1756-IV16

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-IV16

Series ControlLogix

Module Type Digital DC Input Module

Inputs 16

Input Voltage 12-24 Volts DC

Operating Voltage Range 10-30 Volts DC

Input Delay Time 2 milliseconds plus selected filter time

Minimum Operating Current 2 milliamps at 10 Volts DC

Maximum Operating Current 10 milliamps at 30 Volts DC

Maximum Input Current, Off-State 1.5 milliamps

Power Dissipation (Max) 5.41 Watts at 60 degrees Celsius

Backplane Current at 5 Volts 110 milliamps

Backplane Current at 24 Volts 2 milliamps

UPC 10612598264343 Description

The Allen-Bradley 1756-IV16 is a digital sourcing I/O module. This input module has 16 inputs available with 8 points in a group. Compatible with the ControlLogix 1756 chassis, it requires a removable terminal block housing, or RTB, which can either be the 1756-TBNH or 1756-TBSH before it can be attached to the chassis. Only an input data format is used by this module. The operating voltage range of the 1756-IV16 module is from 10 to 30 Volts DC and it has a 12/24 Volt DC source voltage category. It also has a nominal input voltage of 24 Volts DC. Its total backplane power is 0.61 Watts and maximum inrush current is 250 milliamps. The 1756-IV16 has a maximum input impedance of 3.2 kΩ at 30 Volts DC, a maximum power dissipation of 5.1 Watts at 60 Degrees Celsius, and a thermal dissipation of 18.47 BTU/hour. It also has a continuous isolation voltage of 250 Volts. During an off-state, this module has a maximum voltage of 5 Volts DC and a maximum current of 1.5 milliamps. When it is in an on-state, the 1756-IV16 has a current range of a minimum of 2 milliamps at 10 Volts DC and a maximum of 10 milliamps at 30 Volts DC. The 1756-IV16 module has a screw to backplane input delay time. This varies depending on if it going from an 'off' to 'on' state or vice versa. The input delay time when going from 'off' to 'on' is the hardware delay (with a nominal of 280 microseconds and a maximum of 1 milliseconds) plus the user-selectable filter time (either 0 milliseconds, 1 milliseconds, or 2 milliseconds). If going from 'on' to 'off', the input delay time is the hardware delay time (with a nominal of 540 microseconds and a maximum of 2 milliseconds) plus the user selectable filter time (either 1 milliseconds, 2 milliseconds, 9 milliseconds, or 18 milliseconds).□

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