

Allen-Bradley 1756 Series Service Manual

1756-IH16I

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-IH16I
Series	ControlLogix
Module	Type Digital Isolated Input Module
Inputs	16 Individually Isolated Points
Input	Voltage 125 Volts DC Sink-Source
Operating	Voltage Range 90-146 Volts DC
Input	Delay Time 6 milliseconds plus selected filter time
Minimum	Operating Current 1 milliamp at 90 Volts DC
Maximum	Operating Current 3 milliamps at 146 Volts DC
Maximum	Input Current, Off-State 0.8 milliamps
Power	Dissipation (Max) 5 Watts at 60 degrees Celsius
Backplane	Current at 5 Volts 125 milliamps
Backplane	Current at 24 Volts 3 milliamps
Removeable	Terminal Block(s) 1756-TBCH, 1756-TBS6H
UPC	10612598171320 Description
The	Allen-Bradley 1756-IH16I is a sink/source digital input module with 16 individually isolated inputs available. It requires a 36-pin RTB, or removable terminal block housing, of either the 1756-TBCH or 1756-TBS6H before it can be connected to a compatible ControlLogix chassis. This module features

3. Product Information

Mfr. Part Number:

1756-IH16I

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-IH16I ControlLogix Isolated Input Module 90-146V DC 16-Points

Full Description: Allen-Bradley 1756-IH16I ControlLogix Isolated Input Module 90-146V DC, Inputs: 16 individually isolated; Voltage category: 125V DC sink/source; Operating voltage range: 90-146V DC; Input voltage, nom: 125V DC; Current draw @ 5.1V: 125mA; Current draw @ 24V: 3mA; Power dissipation, max: 5W @ 60°C / 140°F; Off-state voltage, max: 20V DC; Off-state current, max: 0.8mA; On-state current, min: 1mA @ 90V DC; On-state current, max: 3mA @ 146V DC; Inrush current, max: 250mA Allen Bradley ControlLogix Digital Isolated Input Module with 16 Individually Isolated Points Inputs Technical specifications for 1756-IH16I

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Brand Allen-Bradley

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Series ControlLogix

Module Type Digital Isolated Input Module

Inputs 16 Individually Isolated Points

Input Voltage 125 Volts DC Sink-Source

Operating Voltage Range 90-146 Volts DC

Input Delay Time 6 milliseconds plus selected filter time

Minimum Operating Current 1 milliamp at 90 Volts DC

Maximum Operating Current 3 milliamps at 146 Volts DC

Maximum Input Current, Off-State 0.8 milliamps

Power Dissipation (Max) 5 Watts at 60 degrees Celsius

Backplane Current at 5 Volts 125 milliamps

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Removeable Terminal Block(s) 1756-TBCH, 1756-TBS6H

UPC 10612598171320 Description

The Allen-Bradley 1756-IH16I is a sink/source digital input module with 16 individually isolated inputs available. It requires a 36-pin RTB, or removable terminal block housing, of either the 1756-TBCH or 1756-TBS6H before it can be connected to a compatible ControlLogix chassis. This module features per point isolation and displays the module health and input and communication status. The 1756-IH16I has an operating voltage range of 90 to 146 Volts DC and a voltage category of 125 Volts DC. It has a current draw of 125 milliamps at 5.1 Volts and 3 milliamps at 24 Volts. The 1756-IH16I has a total backplane power of 0.71 Watts, a maximum inrush current of 250 milliamps, a maximum power dissipation of 5 Watts at 60 Degrees Celsius, and a thermal dissipation of 17.05 BTU/hour. Isolation is continuous between inputs at 250 Volts. During an off-state, the 1756-IH16I has a maximum voltage of 20 Volts DC and a maximum current of 0.8 milliamps. The on-state current ranges from 1 milliamps at 90 Volts DC to 3 milliamps at 146 Volts DC. The on-state voltage range, however, varies and they are as follows: 90 to 46 Volts DC at 30 Degrees Celsius, 16 channels on, 90 to 125 Volts DC at 60 Degrees Celsius, 16 channels on, and 90 to 146 Volts DC at 30 Degrees Celsius, 16 channels on. The module has a screw to backplane input delay time as it moves from one state to the other. From 'off' to 'on', the input delay time is the hardware delay of 2 milliseconds max plus the user-selectable filter time (either 0, 1, or 2 milliseconds), while from 'on' to 'off', it is the hardware delay of 6 max plus the user-selectable filter time (either 0, 1, 2, 9, or 18 milliseconds).

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