

Product Details and Certifications

Cross Reference RA Part Number: 1746-IO12 B



Product: 1746-IO12

Description: 1746 SLC System, 12 Ch-Combination I/O Modules for Programmable Controller



Representative Photo Only (actual product may vary based on configuration sections)

I/O MODULES AND HARDWARE

Bulletin Number	1746 SLC 500 I/O Module
Number of Inputs	6
Number of Outputs	6
Points per Common	6
Voltage Category	120V AC (Inputs), 100/120V AC (relay contact outputs)
Operating Voltage Range	85...132V AC @ 47...63 Hz (Inputs), 5...265V AC @ 47...63Hz/5...125V DC (outputs)
Backplane Current (mA) @ 5V	90 mA
Backplane Current (mA) @ 24V	70 mA
Continuous Current per Module	8 A



Combination I/O Modules



Specifications	1746-IO4	1746-IO8	1746-IO12	1746-IO12DC
Number of inputs	2	4	6	6
Number of outputs	2	4	6	6
Points per common	2	4	6	6
Voltage category	120V AC (inputs) 100/120V AC (relay contact outputs)			10...30V DC (inputs) 5...265V AC @ 47...63 Hz / 5...125V DC (outputs)
Operating voltage range	85...132V AC @ 47...63 Hz (inputs) 5...265V AC @ 47...63 Hz / 5...125V DC (outputs)			10...30V DC (inputs) 5...265V AC @ 47...63 Hz / 5...125V DC (outputs)
Backplane current (mA) @ 5V	30 mA	60 mA	90 mA	80 mA
Backplane current (mA) @ 24V	25 mA	45 mA	70 mA	60 mA
Continuous current per point	See Relay Contact Ratings for 1746-OW4 on page 16		See Relay Contact Ratings for 1746-OW16 on page 16	
Continuous current per module	4 A	8 A	8 A	8 A

1746-SIM Input Simulator

The 1746-SIM Input Simulator is designed for use on 16-channel 24V DC sinking and sourcing modules with removable terminal blocks, including 1746-IB16, 1746-ITB16, 1746-IV16, 1746-ITV16, and 1746-IN16 modules. The input simulator provides 16 switches for simulating inputs to the SLC 500.

1746 Analog I/O Modules

Analog I/O modules feature user-selectable voltage or current inputs, backplane isolation, removable terminal blocks, and diagnostic feedback.

The 1746-NI4, 1746-NIO4I, and 1746-NIO4V input channels are filtered to reject high frequency noise and provide 14- to 16-bit (range-dependent) resolution.

All 4-channel analog output modules provide 14-bit resolution and a 2.5 ms conversion rate.

The 1746-FIO4I and 1746-FIO4V modules have less input filtering and can sense more rapidly changing inputs. However, their input resolution is only 12-bit. Because the input filter on the 1746-FIO4I or 1746-FIO4V module may pass more electrical noise, you should thoroughly ground and shield the input transducer, its power supply, and cables.

The 1746-NI8 module provides high accuracy and fast analog signal conversion. The 1746-NI8, 1746-NI16I and 1746-NI16V modules are high density analog input modules that are software configurable.

The 1746-NO8I (current output) and 1746-NO8V (voltage output) modules are high density, analog output modules that provide 8 individually configurable output channels with 16-bit resolution.