SLC 500 Migration Quick Reference

Migration Guide

(Catalog Number Bulletin 1746 and 1747)

ALLEN-BRADLEY • ROCKWELL SOFTWARE

Rockwell Automation

Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication SGI-1.1 available from your local Rockwell Automation® sales office or online at http://www.rockwellautomation.com/literature/) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

	**WARNING:** Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.
	**ATTENTION:** Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.
	**SHOCK HAZARD:** Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.
	**BURN HAZARD:** Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.
IMPORTANT	Identifies information that is critical for successful application and understanding of the product.

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Notes:

This manual contains new and updated information. Changes throughout this revision are marked by change bars, as shown to the right of this paragraph.

New and Updated Information

This table contains the changes made to this revision.

Topic	Page
Renamed COMPACT 5000 I/O to Compact 5000 I/O.	Throughout manual
Updated the table of Recommended SLC 500 controller catalogs.	15
Updated the table of Recommended CompactLogix 5370 controller catalogs.	16
Updated the table of Recommended CompactLogix 5380 controller catalogs.	17
Updated the table of Recommended Compact I/O catalogs.	20
Updated the table of Recommended Compact 5000 I/O catalogs.	23
Added wiring diagrams for SLC 500 I/O to Compact 5000 I/O.	34

Notes:

About this Publication

This document serves as a guide for replacing your existing SLC 500™ controller or I/O module with another SLC 500 product, or with a different product such as a CompactLogix™ 5370 controller, CompactLogix 5380 controller, Compact I/O™ module, or Compact 5000™ I/O module.

The SLC 500 Control System hardware was redesigned to be RoHS compliant. As a result, several of the products will continue to be available for years to come, however, some products, such as less capable controllers and lower density I/O, have been discontinued.

The SLC control platform in general is in the Active Mature life cycle state, as the newer CompactLogix platform provides greater functionality and connectivity.

The following chapters of this document describe the many SLC, CompactLogix, and Compact I/O options available for active management of your installed base of control products. You have the option of maintaining, migrating, or replacing that installed base in a phased manner to meet your needs.

This document focuses on hardware migration. For more detailed information, including instructions for converting an SLC program to a Logix program, refer to SLC/MicroLogix 1500 to CompactLogix Migration Guide, publication 1769-AP001.

Audience

This document is intended for users of SLC 500 controllers and I/O modules who are familiar with the RSLogix 500® programming software.

Required Software

If the replacement is an SLC 500 controller or I/O module, no additional software is required.

If the replacement is a CompactLogix 5370 controller, CompactLogix 5380 controller, Compact I/O module, or Compact 5000 I/O module, the following are required:

- **Studio 5000® environment, version 21 or later**

  The Studio 5000® environment combines elements of design into one standard framework that optimizes productivity and reduces time to commission.

  With the Studio 5000 Applications you can:
  - Build and maintain a system layout in a central place with **Studio 5000 Architect®**
  - Configure, program and maintain your Logix5000™ or LOGIX 5000™ family of controllers with **Studio 5000 Logix Designer®**

  - Create intuitive, modern screens for the PanelView™ 5000 graphic terminals with **Studio 5000 View Designer®**
  - Create and leverage re-usable libraries of content for rapid project development with **Application Code Manager**

- **RSLogix Project Migrator**

  The RSLogix Project Migrator tool is a standalone software tool for converting an RSLogix 5 or RSLogix 500 project export file for import into Studio 5000 Logix Designer.

  The converter tool is available for download at: http://www.rockwellautomation.com/rockwellautomation/support/pcdc.page

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
SLC 500 RTD/Resistance Input Module Installation Instructions, publication 1746-IN007	Installation instructions for the SLC 500 RTD/Resistance Input Module (Cat. No. 1746-NR8).
SLC 500 RTD/Resistance Input Module Installation Instructions, publication 1746-IN012	Installation instructions for the SLC 500 RTD/Resistance Input Module (Cat. No. 1746-NR4).
SLC 500 Thermocouple/mV Analog Input Module Installation Instructions, publication 1746-IN015	Installation instructions for the SLC 500 Thermocouple/mV Analog Input Module.
SLC 500 8-Point Analog Output Module Installation Instructions, publication 1746-IN026	Installation instructions for SLC 500 8-point analog output modules.
SLC 500 Digital I/O Modules Installation Instructions, publication 1746-IN027	Installation Instructions for SLC 500 digital I/O modules.
SLC 500 4-Channel Analog I/O Modules User Manual, publication 1746-UM005	A more detailed description on how to configure the SLC 500 analog I/O modules.
SLC 500 4-Channel Thermocouple/mV Input Module User Manual, publication 1746-UM007	A more detailed description on how to configure the SLC 500 4-Channel Thermocouple/mV Input Module.
SLC 500 Systems Selection Guide, publication 1747-SG001	An overview of the SLC 500 family of products.
SLC/MicroLogix 1500 to CompactLogix Migration Guide Reference Manual, publication 1769-AP001	Provides information on converting an SLC program to a Logix program and migrating the existing SLC I/O to an Ethernet network.
CompactLogix Controllers Specifications Technical Data, publication 1769-TD005	Provides CompactLogix controllers specifications.
Compact I/O Modules Specifications Technical Data, publication 1769-TD006	Provides Compact I/O Modules specifications.
CompactLogix 5370 Controllers User Manual, publication 1769-UM021	Describes how to install, use, and troubleshoot CompactLogix 5370 controllers.
CompactLogix 5380 Controllers User Manual, publication 5069-UM001	Describes how to install, use, and troubleshoot CompactLogix 5380 controllers.
COMPACT 5000 I/O Modules Specifications Technical Data, publication 5069-TD001	Provides 5069-AEN2TR EtherNet/IP Adapter and COMPACT 5000 I/O specifications.

You can view or download publications at http:/www.rockwellautomation.com/literature/. To order paper copies of

technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Notes:

Overview

Product Lifecycle Status Website

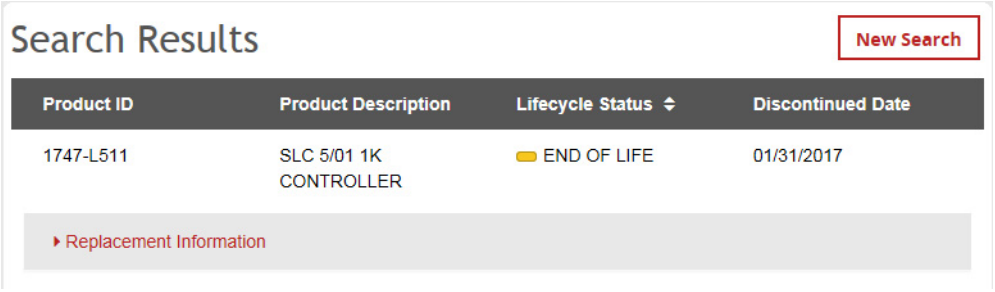
The Rockwell Automation Product Lifecycle Status website allows you to proactively plan and manage the transition from existing equipment to leading-edge products and technologies. Using the search tool, you can view up-to-date product life cycle status and identify the most contemporary Rockwell Automation products.

The product life cycle status may be Active, Active Mature, End of Life, or Discontinued.

To view the life cycle information for a product:

1. On your web browser, open the Product Lifecycle Status website: http://www.rockwellautomation.com/global/solutions-services/capabilities/migration-solutions/product-search/overview.page
2. In the Catalog Number field, enter the catalog number of the product.

3. Click Search.
   The product life cycle data displays.



If the life cycle status of the product is End of Life or Discontinued, you can view the recommended replacement by clicking Replacement Information:

SLC 500 System

The SLC 500 system is a small chassis-based family of programmable controllers, discrete, analog, and specialty I/O, and peripheral devices. The SLC 500 family delivers power and flexibility with a wide range of communication configurations, features, and memory options.

SLC 500 programmable controllers provide value with extensive capabilities to address a broad range of applications including material handling, HVAC control, high speed assembly operations, small process control, simple motion control, and SCADA. With SLC 500 Modular Hardware Style controllers, you select the processor, power supply, and I/O modules to fit your application. Modular style chassis are available in 4, 7, 10, and 13-slot versions.

Digital I/O modules, analog I/O modules, and specialty temperature, counting, and process control modules are available to help you create a custom solution for your application.

CompactLogix 5370 Controllers

CompactLogix 5370 controllers provide scalable controller solutions to address a wide variety of applications. All CompactLogix 5370 controllers provide the following functionality:

- Two EtherNet/IP ports
- One USB port
- Support for local expansion modules
- Control of local and distributed I/O modules
- Use of 1784-SD1 or 1784-SD2 Secure Digital (SD) card for nonvolatile memory
- A battery is no longer necessary because of the internal energy-storage solution

Some CompactLogix 5370 controllers provide the following functionality:

- Built-in power supply
- Some combination of embedded digital, analog, and high-speed counter modules
- Support for Integrated Motion over an EtherNet/IP network
- Access to DeviceNet networks.

CompactLogix 5380 Controllers

CompactLogix 5380 controllers can operate in various applications that range from standalone systems or in more complex systems with devices connected to the controller via an EtherNet/IP network. All CompactLogix 5380 controllers provide the following functionality:

- Two EtherNet/IP ports
- One USB port
- Support for local expansion modules
- Control of local and distributed I/O modules

- Support Device Level Ring (DLR), Star, and Linear EtherNet/IP network topologies.
- Support up to 80 EtherNet/IP nodes, depending on catalog number.
- Support Linear/DLR and Dual-IP EtherNet/IP modes.

Some CompactLogix 5380 controllers provide the following functionality:

- Support for Integrated Motion up to 32 axes over an EtherNet/IP network

Compact I/O Modules

The Compact I/O modules can be used in the following applications:

- With a CompactLogix controller
- For expansion I/O in a MicroLogix™ 1500 controller assembly
- In an assembly with a 1769-ADN DeviceNet adapter
- In an assembly with a 1769-AENTR Ethernet adapter.

Each I/O module includes a built-in removable terminal block with fingersafe cover for connections to I/O sensors and actuators. The terminal block is behind a door at the front of the module. I/O wiring can be routed from beneath the module to the I/O terminals.

- Once the modules are locked together, the system becomes a rugged assembly.
- Upper and lower tongue-and-groove slots guide the module during installation and secure the module within the system.
- Removable terminal blocks help ease the wiring task.
- Self-lifting, field-wire pressure plates cut installation time.
- The patented bus connector with the lock function enables consistent system communication.
- A color bar is provided on the front of the module.
- Digital and field circuits are optically isolated.

Compact 5000 I/O Modules

The Compact 5000 I/O architecture provides a wide range of input and output modules to span many applications, from high-speed digital to process control. The architecture uses Producer/Consumer technology that allows input information and output status to be shared among multiple LOGIX 5000 controllers.

Compact 5000 I/O systems are used as local I/O modules in CompactLogix 5380 controller systems or as remote I/O modules with CompactLogix 5380 controllers and some other LOGIX 5000 controllers. The module are configured with the Studio 5000 Logix Designer application.

The I/O module requires a removable terminal block (RTB) to connect field-side wiring. RTBs are not included with the I/O modules. You must order RTBs separately.

Notes:

Replace an SLC 500 Controller

This chapter provides information about the recommended replacement for your existing SLC 500 controller.

Due to the discontinuation of SLC 5/01 and SLC 5/02 controllers in January 2017, a replacement SLC or CompactLogix controller is recommended.

You can view the life cycle status of your SLC product on the Rockwell Automation Product Lifecycle Status website: http://www.rockwellautomation.com/global/solutions-services/capabilities/migration-solutions/product-search/overview.page.

Upgrade to a Different SLC Controller

Refer to the following table for the recommended replacement SLC 500 controller to your existing SLC 500 controller:

Catalog Number	SLC Controller Description	Recommended SLC Replacement (1)	SLC Controller Description
1747-L511	SLC 5/01 1K Controller	1747-L533	SLC 5/03 32K Controller
1747-L514	SLC 5/01 4K Controller	1747-L533	SLC 5/03 32K Controller
1747-L524	SLC 5/02 4K Controller	1747-L533	SLC 5/03 32K Controller
1747-L531	SLC 5/03 8K Controller	1747-L533	SLC 5/03 32K Controller
1747-L532	SLC 5/03 16K Controller	1747-L533	SLC 5/03 32K Controller
1747-L541	SLC 5/04 16K Controller	1747-L543	SLC 5/04 64K Controller
1747-L542	SLC 5/04 32K Controller	1747-L543	SLC 5/04 64K Controller
1747-L551	SLC 5/05 16K Controller	1747-L553	SLC 5/05 64K Controller
1747-L552	SLC 5/05 32K Controller	1747-L553	SLC 5/05 64K Controller

(1) Before purchasing the recommended controller, check the life cycle status of the product first from the Product Lifecycle Status website.

For technical specifications of SLC controllers, refer to SLC 500 Systems Selection Guide, publication 1747-SG001.

Upgrade to a CompactLogix 5370 Controller

Refer to the following table for the recommended replacement CompactLogix 5370 controller to your existing SLC 500 controller. These recommendations excludes Motion and Safety applications, consult your local sales office for more info.

Catalog Number	SLC Controller Description	Recommended CompactLogix 5370 Controller Replacement (1)	CompactLogix 5370 Controller Description
1747-L511	SLC 5/01 1K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L514	SLC 5/01 4K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L524	SLC 5/02 4K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L531	SLC 5/03 8K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L532	SLC 5/03 16K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L533	SLC 5/03 32K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L541	SLC 5/04 16K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L542	SLC 5/04 32K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L543	SLC 5/04 64K Controller	1769-L30ER	CompactLogix 5370 L3 Controller, 1 MB Memory, Dual Ethernet Port - SD Card
1747-L551	SLC 5/05 16K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L552	SLC 5/05 32K Controller	1769-L24ER-QB1B	CompactLogix 5370 L2 Controller, 750 KB Memory, 16 DC Inputs, 16 DC Outputs
1747-L553	SLC 5/05 64K Controller	1769-L30ER	CompactLogix 5370 L3 Controller, 1 MB Memory, Dual Ethernet Port - SD Card

(1) The general rule of thumb for memory estimation can be found under "SLC to Logix Memory Comparison" in the SLC/MicroLogix 1500 to CompactLogix Migration Guide, publication 1769-AP001. Alternatively, you may validate the controller based on memory estimation by the code conversion tool (RSLogix Project Migrator).

For technical specifications of the recommended CompactLogix 5370 controller, refer to CompactLogix Controllers Specifications Technical Data, publication 1769-TD005.

Upgrade to a CompactLogix 5380 Controller

Refer to the following table for the recommended replacement CompactLogix 5380 controller to your existing SLC 500 controller. These recommendations excludes Motion and Safety applications, consult your local sales office for more info.

Catalog Number	SLC Controller Description	Recommended CompactLogix 5380 Controller Replacement (1)	CompactLogix 5370 Controller Description
1747-L511	SLC 5/01 1K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L514	SLC 5/01 4K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L524	SLC 5/02 4K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L531	SLC 5/03 8K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L532	SLC 5/03 16K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L533	SLC 5/03 32K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L541	SLC 5/04 16K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L542	SLC 5/04 32K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L543	SLC 5/04 64K Controller	5069-L310ER	CompactLogix 5380 Controller, 1 MB, 8 I/O, 24 nodes, Standard
1747-L551	SLC 5/05 16K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L552	SLC 5/05 32K Controller	5069-L306ER	CompactLogix 5380 Controller, 600 KB, 8 I/O, 16 nodes, Standard
1747-L553	SLC 5/05 64K Controller	5069-L310ER	CompactLogix 5380 Controller, 1 MB, 8 I/O, 24 nodes, Standard

(1) The general rule of thumb for memory estimation can be found under "SLC to Logix Memory Comparison" in the SLC/MicroLogix 1500 to CompactLogix Migration Guide, publication 1769-AP001. Alternatively, you may validate the controller based on memory estimation by the code conversion tool (RSLogix Project Migrator).

For technical specifications of the recommended CompactLogix 5380 controller, refer to CompactLogix Controllers Specifications Technical Data, publication 5069-TD002.

Notes:

Replace an SLC 500 I/O Module

This chapter provides information about the recommended replacement for your existing SLC 500 I/O module.

The life cycle status for Rockwell Automation products is maintained and published in the Rockwell Automation Product Lifecycle Status website: http://www.rockwellautomation.com/global/solutions-services/capabilities/migration-solutions/product-search/overview.page.

Upgrade an SLC I/O Installation by Replacing it with a Different SLC 500 I/O

Refer to the following table for the recommended replacement SLC 500 I/O module to your existing SLC 500 I/O module.

Catalog Number (1)	SLC Module Description	Recommended SLC Replacement (2)	SLC Module Description
1746-IA8	8 - input 100/120 VAC	1746-IA16	16 - input 100/120 VAC
1746-IA16	16 - input 100/120 VAC	No replacement	—
1746-IB8	8 - input (SINK) 24 VDC	1746-IB16	16 - input (SINK) 24 VDC
1746-IB16	16 - input (SINK) 24 VDC	No replacement	—
1746-IN16	16 - input (SINK) 24 VAC	Engineering replacement 1746-IA16	—
1746-IO12DC	12 - combination 24 VDC	Engineering replacement available (3)	—
1746-OA8	8 - output 100/240 VAC	1746-OA16	—
1746-OB8	8 - output 10/50 VDC	1746-OB16	16 - output 10/50 VDC
1746-OB16	16 - output 10/50 VDC	No replacement	—
1746-OW8	8 - output (Relay) VAC/VDC	1746-OW16	16 - output (Relay) VAC/VDC
1746-NO4I	4 channel analog current output	1746-NO8I	4 channel analog current output
1746-NO4V	4 channel analog voltage output	1746-NO8V	4 channel analog voltage output
1746-NR4	4 channel RTD/resistance input	1746-NR8	4 channel RTD/resistance input
1746-NT4	4 channel thermocouple input	1746-NT8	4 channel thermocouple input
1746-HSTP1	1 axis stepper module	AMCI 3501-HSTP1	Encompass Partner

(1) The product may be in Active Mature, End of Life, or Discontinued state. To view the most up-to-date product life cycle status, search for the catalog number on the Product Lifecycle Status website.

(2) For catalogs that do not have an SLC replacement, refer to Upgrade an SLC I/O Installation by Replacing it with Compact I/O on page 20.

(3) Talk to your local sales team for more information.

For technical specifications of SLC 500 I/O modules, refer to SLC 500 Systems Selection Guide, publication 1747-SG001.

For wiring diagrams of the recommended replacements for your existing SLC 500 I/O module, refer to Wiring Diagram Comparisons on page 29.

Upgrade an SLC I/O Installation by Replacing it with Compact I/O

Refer to the following table for the recommended replacement Compact I/O module to your existing SLC 500 I/O module.

Before upgrading, take note of the following:

- When replacing an SLC I/O with a Compact I/O, a CompactLogix 5370 controller must be used.
- There might be technical differences between the SLC I/O and Compact I/O. Verify the specifications to meet your application needs. For wiring diagrams and technical specifications of Compact I/O modules, refer to Compact I/O Modules Specifications Technical Data, publication 1769-TD006.

Module Type	Catalog Number [1]	SLC Module Description	Recommended Compact I/O Replacement[2]	Compact I/O Module Description
Digital input	1746-IA4	100/120V AC 4 120V AC input module	1769-IA8I	8 inputs, individually isolated, 100/120V AC input module
	1746-IA8	100/120V AC 8 120V AC input module	1769-IA8I	8 inputs, individually isolated, 100/120V AC input module
	1746-IA16	100/120V AC 16 120V AC input module	1769-IA16	16 inputs, 100/120V AC input module
	1746-IB8	24V DC 8 current sinking DC input module	1769-IQ16	16 inputs, 24V DC sink/souce input module
	1746-IB16	24V DC 16 current sinking DC input module	1769-IQ16	16 inputs, 24V DC sink/souce input module
	1746-IB32	24V DC 32 current sinking DC input module	1769-IQ32	32 inputs, 24V DC sink/souce input module
	1746-IC16	48V DC 16 current sinking DC input module	No replacement	—
	1746-IG16	5V DC 16 current sourcing TTL input module	1769-IG16	16 inputs, 5V DC TTL input module
	1746-IH16	125V DC 16 current sinking DC input module	No replacement	—
	1746-IM4	200/240V AC 4 240V AC input module	1769-IM12	12 inputs, 200/240V AC input module
	1746-IM8	200/240V AC 8 240V AC input module	1769-IM12	12 inputs, 200/240V AC input module
	1746-IM16	200/240V AC 16 240V AC input module	1769-IM12	12 inputs, 200/240V AC input module
	1746-IN16	24V AC/DC 16 24V AC/DC input module	No replacement	—
	1746-ITB16	24V DC 16 fast response DC sinking input module	1769-IQ16F	16 inputs, high speed 24V DC sink/source digital input module
	1746-ITV16	24V DC 16 fast response DC sourcing input module	1769-IQ16F	16 inputs, high speed 24V DC sink/source digital input module
	1746-IV8	24V DC 8 current sourcing DC input module	1769-IQ16	16 inputs, 24V DC sink/source input module
	1746-IV16	24V DC 16 current sourcing DC input module	1769-IQ16	16 inputs, 24V DC sink/source input module
	1746-IV32	24V DC 32 current sourcing DC input module	1769-IQ32	32 inputs, 24V DC sink/source input module
Digital output	1746-OA8	120/240V AC 8 120/240V AC output module	1769-OA8	8 outputs, 100/240V AC input module
	1746-OA16	120/240V AC 16 120/240V AC output module	1769-OA16	16 outputs, 100/240V AC input module
	1746-OAP12	120/240V AC 12 high current 120/240V AC output module	No replacement	—
	1746-OB6EI	24V DC 6 electronically protected isolated sourcing DC output module	No replacement	—
	1746-OB8	24V DC 8 current sourcing DC output module	1769-OB8	8 outputs, 24V DC source output module

Module Type	Catalog Number [1]	SLC Module Description	Recommended Compact I/O Replacement[2]	Compact I/O Module Description
Digital output (cont)	1746-OB16	24V DC 16 current sourcing DC output module	1769-OB16	16 outputs, 24V DC source output module
	1746-OB16E	24V DC 16 electronically protected current sourcing DC output module	1769-OB16P	16 outputs, protected, 24V DC source output module
	1746-OB32	24V DC 32 current sourcing DC output module	1769-OB32	32 outputs, 24V DC source output module
	1746-OB32E	24V DC 32 electronically protected current sourcing DC output module	No replacement	—
	1746-OBP8	24V DC 8 high current sourcing DC output module	1769-OB8	8 outputs, 24V DC source output module
	1746-OBP16	24V DC 16 high current sourcing DC output module	No replacement	—
	1746-OG16	5V DC 16 current sourcing TTL output module	1769-OG16	16 outputs, 5V DC TTL output module
	1746-OV8	24V DC 8 current sinking DC output module	1769-OV16	16 outputs, 24V DC sink output module
	1746-OV16	24V DC 16 current sinking DC output module	1769-OV16	16 output, 24V DC sink output module
	1746-OV32	24V DC 32 current sinking DC output module	1769-OV32T	32 terminated outputs, 24V DC sink output module
	1746-OVP16	24V DC 16 high current sinking DC output module	No replacement	—
	1746-OW4	AC/DC relay 4 relay (hard contact) output module	1769-OW8	8 outputs, 5...265V AC/5...125V DC relay output module
	1746-OW8	AC/DC relay 8 relay (hard contact) output module	1769-OW8	8 outputs, 5...265V AC/5...125V DC relay output module
	1746-OW16	AC/DC relay 16 relay (hard contact) output module	1769-OW16	16 outputs, 5...265V AC/5...125V DC relay output module
	1746-OX8	AC/DC relay 8 relay (hard contact) output module	No replacement	—
Digital combination	1746-IO4	120V AC (inputs) 100/120V AC (relay contact outputs) 2-in 2-out combination input/output module	No replacement	—
	1746-IO8	120V AC (inputs) 100/120V AC (relay contact outputs) 4-in 4-out combination input/output module	No replacement	—
	1746-IO12	120V AC (inputs) 100/120V AC (relay contact outputs) 6-in 6-out combination input/output module	No replacement	—
	1746-IO12DC	240V DC (inputs) 100/120V AC (relay contact outputs) 6-in 6-out combination input/output module	1769-IQ6XOW4	6 inputs, 4 outputs, 24V DC sink/source input AC/DC normally open, relay contact output module
Analog input	1746-INT4	4-channel thermocouple (J, K, T, E, R, S, B, N, C, D)/mV input module	1769sc-IT6I	Isolated thermocouple or millivolt input module
	1746-NI4	High resolution (4) analog input module	1769-IF4	4 inputs, differential or single-ended, ±10V/0...10V/0...5V/1...5V/0...20 mA/4...20 mA analog input module
	1746-NI8	High resolution (8) analog input module	1769-IF8	8 inputs, differential or single-ended, ±10V/0...10V/0...5V/1...5V/0...20 mA/4...20 mA analog input module
	1746-NI16I	-20 mA to +20 mA high resolution (16) analog input module	1769-IF16C	16 inputs, single-ended 0...20 mA/ 4...20 mA analog input module
	1746-NI16V	-10V DC to +10V DC high resolution (16) analog input module	1769-IF16V	16 inputs, single-ended, ±10V/0...10V/0...5V/1...5V analog input module
	1746-NR4	4-channel RTD/resistance input module	1769-IR6	6 RTD inputs, 100, 200, 500, 1000 Platinum 385/3916, 120 ohm Nickel 618/672, 10 ohm Nickel-iron, 0...150/500/1000/3000 ohm module
	1746-NR8	8-channel RTD/resistance input module	1769-IR6	6 RTD inputs, 100, 200, 500, 1000 Platinum 385/3916, 120 ohm Nickel 618/672, 10 ohm Nickel-iron, 0...150/500/1000/3000 ohm module
	1746-NT4	4-channel thermocouple (J, K, T, E, R, S, B, N)/mV input module	1769-IT6	6 thermocouple, thermocouple types B, C, E, J, K, N, R, S, T/±50V/±100V module
	1746-NT8	8-channel thermocouple (J, K, T, E, R, S, B, N)/mV input module	1769-IT6	6 thermocouple, thermocouple types B, C, E, J, K, N, R, S, T/±50V/±100V module
Analog output	1746-NIO4I	High resolution (2) analog input, (2) analog current output module	1769-IF4XOF2	4 inputs, differential or single-ended, 2 outputs, single-ended analog module
	1746-NIO4V	High resolution (2) analog input, (2) analog voltage output module	1769-IF4XOF2	4 inputs, differential or single-ended, 2 outputs, single-ended analog module
	1746-NO4I	0 mA to 20 mA (4) analog current output module	1769-OF4	4 outputs, single-ended, ±10V/0...10V/0...5V/1...5V/0...20 mA/4...20 mA analog output module

Module Type	Catalog Number (1)	SLC Module Description	Recommended Compact I/O Replacement(2)	Compact I/O Module Description
Analog output (cont)	1746-NO4V	-10V DC to +10V DC (4) analog current output module	1769-OF4	4 outputs, single-ended, ±10V/0...10V/0...5V/1...5V/ 0...20 mA/4...20 mA analog output module
	1746-NO8I	0 mA to 20 mA (8) analog current output module	1769-OF8C	8 outputs, single-ended, 0...20 mA/4...20 mA analog output module
	1746-NO8V	-10V DC to +10V DC (8) analog current output module	1769-OF8V	8 outputs, single-ended, ±10V/0...10V/0...5V/1...5V analog output module
Analog combination	1746-FIO4I	(2) Fast analog input, (2) analog current output module	1769-IF4XOF2	4 inputs, differential or single-ended, 2 outputs, single-ended analog module
	1746-FIO4V	(2) Fast analog input, (2) analog voltage output module	1769-IF4XOF2	4 inputs, differential or single-ended, 2 outputs, single-ended analog module
Specialty	1747-ACN15	ControlNet adapter	No replacement	—
	1747-ACNR15	ControlNet adapter, redundant	No replacement	—
	1747-ASB	SLC 500 remote I/O adapter	No replacement	—
	1746-BAS	Basic module	No replacement	—
	1746-BAS-T	High speed basic module	No replacement	—
	1746-BLM	Blow molding module	No replacement	—
	1746-BTM	Barrel temperature module	No replacement	—
	1746-HS	IMC 110 motion module	No replacement	—
	1746-HSCE	High speed counter encoder module	No replacement	—
	1746-HSCE2	Multi-channel high speed counter encoder module	1769-HSC	High speed counter module
	1746-HSTP1	1-axis stepper module	No replacement	—
	1746-N2	Empty slot filler	1769-ARM	Compact address reserve module
	1746-QS	Synchronized axis module	No replacement	—
	1746-QV	Open loop velocity control module	No replacement	—
	1747-SCNR	ControlNet scanner	No replacement	—
	1747-SDN	DeviceNet scanner	1769-SDN	Compact I/O DeviceNet scanner
	1746-SIM	16-point input simulator module	No replacement	—
	1747-SN	Remote I/O scanner	No replacement	—

(1) The product may be in Active Mature, End of Life, or Discontinued state. To view the most up-to-date product life cycle status, search for the catalog number on the Product Lifecycle Status website.

(2) The recommended replacements indicated in this table are for reference only. There may be slight differences in specifications between the existing 1746 SLC I/O module and recommended 5069 Compact 5000 I/O module or 1769 CompactLogix I/O module. Please consult your local sales team for further assistance.

Upgrade an SLC I/O Installation by Replacing it with Compact 5000 I/O

Refer to the following table for the recommended replacement Compact 5000 I/O module to your existing SLC 500 I/O module.

Before upgrading, take note of the following:

- When replacing an SLC I/O with a Compact 5000 I/O, a CompactLogix 5380 or ControlLogix® 5580 controller must be used.
- There might be technical differences between the SLC I/O and Compact 5000 I/O. Verify the specifications to meet your application needs. For wiring diagrams and technical specifications of Compact 5000 I/O modules, refer to COMPACT 5000 I/O Modules Specifications Technical Data, publication 5069-TD001.

Module Type	Catalog Number [1]	SLC Module Description	Recommended Compact 5000 I/O Replacement[2]	Compact I/O Module Description
Digital input	1746-IA4	100/120V AC 4 120V AC input module	5069-IA16	16-point, 120/240V AC digital input module
	1746-IA8	100/120V AC 8 120V AC input module	5069-IA16	16-point, 120/240V AC digital input module
	1746-IA16	100/120V AC 16 120V AC input module	5069-IA16	16-point, 120/240V AC digital input module
	1746-IB8	24V DC 8 current sinking DC input module	5069-IB16	16-point, 24V DC sinking digital input module
	1746-IB16	24V DC 16 current sinking DC input module	5069-IB16	16-point, 24V DC sinking digital input module
	1746-IB32	24V DC 32 current sinking DC input module	5069-IB16	16-point, 24V DC sinking digital input module
	1746-IC16	48V DC 16 current sinking DC input module	No replacement	—
	1746-IG16	5V DC 16 current sourcing TTL input module	No replacement	—
	1746-IH16	125V DC 16 current sinking DC input module	No replacement	—
	1746-IM4	200/240V AC 4 240V AC input module	5069-IA16	16-point, 120/240V AC digital input module
	1746-IM8	200/240V AC 8 240V AC input module	5069-IA16	16-point, 120/240V AC digital input module
	1746-IM16	200/240V AC 16 240V AC input module	5069-IA16	16-point, 120/240V AC digital input module
	1746-IN16	24V AC/DC 16 24V AC/DC input module	No replacement	—
	1746-ITB16	24V DC 16 fast response DC sinking input module	5069-IB16	16-point, 24V DC sinking digital input module
	1746-ITV16	24V DC 16 fast response DC sourcing input module	No replacement	—
	1746-IV8	24V DC 8 current sourcing DC input module	No replacement	—
	1746-IV16	24V DC 16 current sourcing DC input module	No replacement	—
	1746-IV32	24V DC 32 current sourcing DC input module	No replacement	—
Digital output	1746-OA8	120/240V AC 8 120/240V AC output module	5069-OA16	16-point, 120/240V AC digital output module
	1746-OA16	120/240V AC 16 120/240V AC output module	5069-OA16	16-point, 120/240V AC digital output module
	1746-OAP12	120/240V AC 12 high current 120/240V AC output module	No replacement	—
	1746-OB6EI	24V DC 6 electronically protected isolated sourcing DC output module	No replacement	—
	1746-OB8	24V DC 8 current sourcing DC output module	5069-OB8	8-point, 24V DC high current digital output module
	1746-OB16	24V DC 16 current sourcing DC output module	5069-OB16	16-point, 24V DC sourcing digital output module
	1746-OB16E	24V DC 16 electronically protected current sourcing DC output module	5069-OB16	16-point, 24V DC sourcing digital output module
	1746-OB32	24V DC 32 current sourcing DC output module	5069-OB16	16-point, 24V DC sourcing digital output module
	1746-OB32E	24V DC 32 electronically protected current sourcing DC output module	5069-OB16	16-point, 24V DC sourcing digital output module
	1746-OBP8	24V DC 8 high current sourcing DC output module	5069-OB8	8-point, 24V DC high current digital output module
	1746-OBP16	24V DC 16 high current sourcing DC output module	5069-OB8	8-point, 24V DC high current digital output module
	1746-OG16	5V DC 16 current sourcing TTL output module	No replacement	—

Module Type	Catalog Number [1]	SLC Module Description	Recommended Compact 5000 I/O Replacement[2]	Compact I/O Module Description
Digital output (cont)	1746-OV8	24V DC 8 current sinking DC output module	No replacement	—
	1746-OV16	24V DC 16 current sinking DC output module	No replacement	—
	1746-OV32	24V DC 32 current sinking DC output module	No replacement	—
	1746-OVP16	24V DC 16 high current sinking DC output module	No replacement	—
	1746-OW4	AC/DC relay 4 relay (hard contact) output module	5069-OW4I	4-point, normally open, isolated relay output module
	1746-OW8	AC/DC relay 8 relay (hard contact) output module	1769-OW16	16-point, non-isolated, high density relay output nodule
	1746-OW16	AC/DC relay 16 relay (hard contact) output module	5069-OW16	16-point, non-isolated, high density relay output nodule
	1746-OX8	AC/DC relay 8 relay (hard contact) output module	5069-OX4I	4-point, normally open/normally closed, isolated relay output module
Digital combination	1746-IO4	120V AC (inputs) 100/120V AC (relay contact outputs) 2-in 2-out combination input/output module	No replacement	—
	1746-IO8	120V AC (inputs) 100/120V AC (relay contact outputs) 4-in 4-out combination input/output module	No replacement	—
	1746-IO12	120V AC (inputs) 100/120V AC (relay contact outputs) 6-in 6-out combination input/output module	No replacement	—
	1746-IO12DC	240V DC (inputs) 100/120V AC (relay contact outputs) 6-in 6-out combination input/output module	No replacement	—
Analog input	1746-INT4	4-channel thermocouple (J, K, T, E, R, S, B, N, C, D)/mV input module	No replacement	—
	1746-NI4	High resolution (4) analog input module	5069-IY4	4-channel, universal analog input module
	1746-NI8	High resolution (8) analog input module	5069-IF8	8-channel, analog input module
	1746-NI16I	-20 mA to +20 mA high resolution (16) analog input module	5069-IF8	8-channel, analog input module
	1746-NI16V	-10V DC to +10V DC high resolution (16) analog input module	5069-IF8	8-channel, analog input module
	1746-NR4	4-channel RTD/resistance input module	5069-IY4	4-channel, universal analog input module
	1746-NR8	8-channel RTD/resistance input module	5069-IY4	4-channel, universal analog input module
	1746-NT4	4-channel thermocouple (J, K, T, E, R, S, B, N)/mV input module	5069-IY4	4-channel, universal analog input module
	1746-NT8	8-channel thermocouple (J, K, T, E, R, S, B, N)/mV input module	5069-IY4	4-channel, universal analog input module
Analog output	1746-NIO4I	High resolution (2) analog input, (2) analog current output module	No replacement	—
	1746-NIO4V	High resolution (2) analog input, (2) analog voltage output module	No replacement	—
	1746-NO4I	0 mA to 20 mA (4) analog current output module	5069-OF4	4-channel, analog output module
	1746-NO4V	-10V DC to +10V DC (4) analog current output module	5069-OF4	4-channel, analog output module
	1746-NO8I	0 mA to 20 mA (8) analog current output module	5069-OF8	8-channel, analog output module
	1746-NO8V	-10V DC to +10V DC (8) analog current output module	5069-OF8	8-channel, analog output module
Analog combination	1746-FIO4I	(2) Fast analog input, (2) analog current output module	No replacement	—
	1746-FIO4V	(2) Fast analog input, (2) analog voltage output module	No replacement	—
Specialty	1747-ACN15	ControlNet adapter	5069-AENTR	Dual-port EtherNet/IP adapter with display diagnostics, integrated USB port
	1747-ACNR15	ControlNet adapter, redundant	No replacement	—
	1747-ASB	SLC 500 remote I/O adapter	No replacement	—
	1746-BAS	Basic module	No replacement	—
	1746-BAS-T	High speed basic module	No replacement	—
	1746-BLM	Blow molding module	No replacement	—
	1746-BTM	Barrel temperature module	No replacement	—

Module Type	Catalog Number (1)	SLC Module Description	Recommended Compact 5000 I/O Replacement(2)	Compact I/O Module Description
Specialty (cont)	1746-HS	IMC 110 motion module	No replacement	—
	1746-HSCE	High speed counter encoder module	5069-HSC2XOB4	High speed counter, 2-axis, 4-point sourcing digital output module
	1746-HSCE2	Multi-channel high speed counter encoder module	5069-HSC2XOB4	High speed counter, 2-axis, 4-point sourcing digital output module
	1746-HSTP1	1 axis stepper module	No replacement	—
	1746-N2	Empty slot filler	5069-ARM	Address reserve module
	1746-QS	Synchronized axis module	No replacement	—
	1746-QV	Open loop velocity control module	No replacement	—
	1747-SCNR	ControlNet scanner	No replacement	—
	1747-SDN	DeviceNet scanner	No replacement	—
	1746-SIM	16-point input simulator module	No replacement	—
	1747-SN	Remote I/O scanner	No replacement	—

(1) The product may be in Active Mature, End of Life, or Discontinued state. To view the most up-to-date product life cycle status, search for the catalog number on the Product Lifecycle Status website.

(2) The recommended replacements indicated in this table are for reference only. There may be slight differences in specifications between the existing 1746 SLC I/O module and recommended 5069 Compact 5000 I/O module or 1769 CompactLogix I/O module. Please consult your local sales team for further assistance.

Notes:

Replace an SLC 500 Accessory

This chapter provides information about the recommended replacement for your existing SLC 500 accessory.

The life cycle status for Rockwell Automation products is maintained and published in the Rockwell Automation Product Lifecycle Status website: http://www.rockwellautomation.com/global/solutions-services/capabilities/migration-solutions/product-search/overview.page.

Refer to the following table for the recommended replacement SLC 500 accessory to your existing SLC 500 accessory.

Catalog Number	Product Description	Recommended Replacement	Accessory Replacement Description
1746-A2 (1)	SLC 2 slot chassis	No replacement	—
1746-A4 (1)	SLC 4 slot chassis	1746-A7 (1)	SLC 7 slot chassis
1746-A7 (1)	SLC 7 slot chassis	1746-A10(1)	SLC 10 slot chassis
1746-C7	SLC rack interconnect cable	1746-C9	SLC rack interconnect cable
1746-F2	SLC power supply fuse	Equivalent 250V-3A fuse (Nagasawa ULCS-61ML-3 or BUSSMAN AGC3)	3rd party fuse
1747-M1	SLC memory module	No replacement	—
1747-UICC13	USB to DH-485 interface module and 1747-C13 cable (bundled)	1747-UIC and 1747-C13	USB to DH-485 interface module and 1747-C13 cable (independent)
1747-AIC	SLC isloated link coupler	1746-UIC	1746-UIC
1747-DPS1	SLC port splitter	Currently Unavailable	Migrate to CompactLogix solution
1747-DPS2	SLC configurable port splitter	Currently Unavailable	Migrate to CompactLogix solution
1747-C11	SLC replacement cable	1747-C10	SLC replacement cable
1747-DU501	SLC 5/05 Firmware Upgrade Kit	Download from PCDC	Product Compatibility and Download Center (PCDC) website
1761-NET-AIC	MicroLogix and SLC communication adapter	Advantech 485DRCI (2)	3rd party adapter
1761-NET-ENI	MicroLogix and SLC communication adapter	Aparian DF1 Router	Encompass Partner
1761-NET-ENIW	Web-enabled Ethernet Interface Converter	Aparian DF1 Router	Encompass Partner

(1) Before purchasing a replacement SLC 500 chassis, check the life cycle status of the product first from the Product Lifecycle Status website.

(2) See KnowledgeBase article 1011086 for more information.

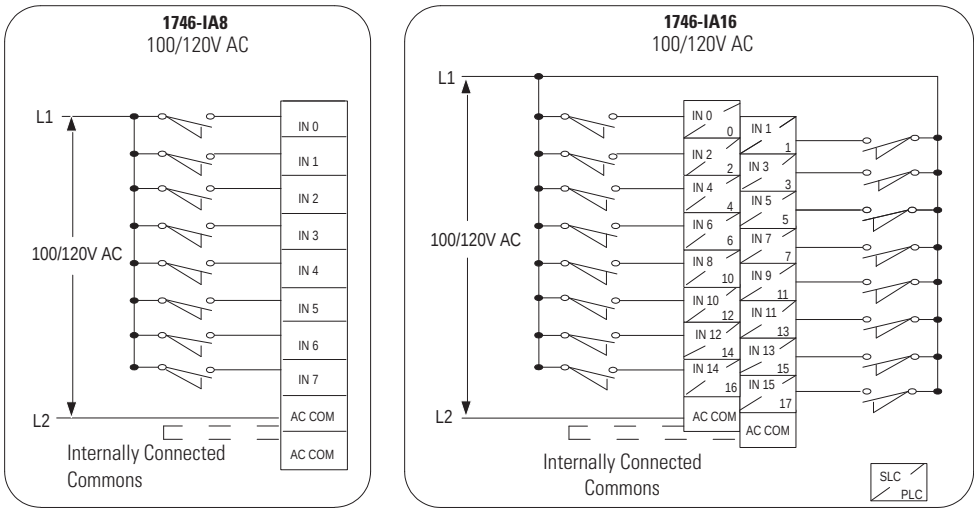
Notes:

Wiring Diagram Comparisons

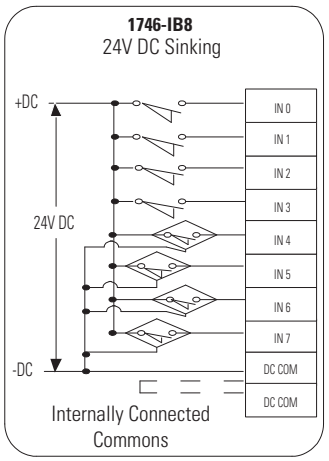
This appendix provides wiring diagram comparisons of the recommended replacement for your existing SLC 500 I/O module.

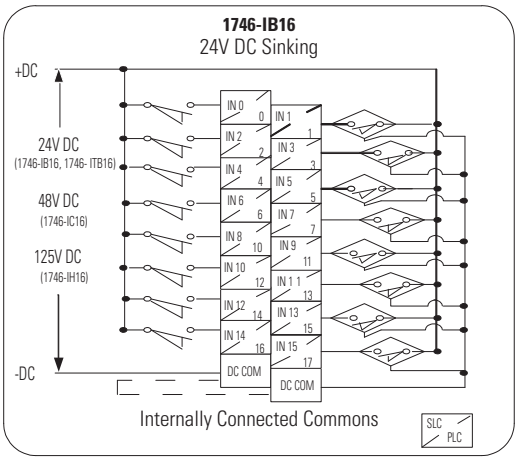
Replace an SLC 500 I/O with a Different SLC 500 I/O

1746-IA8 to 1746-IA16

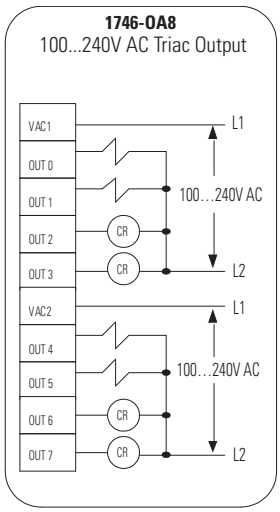


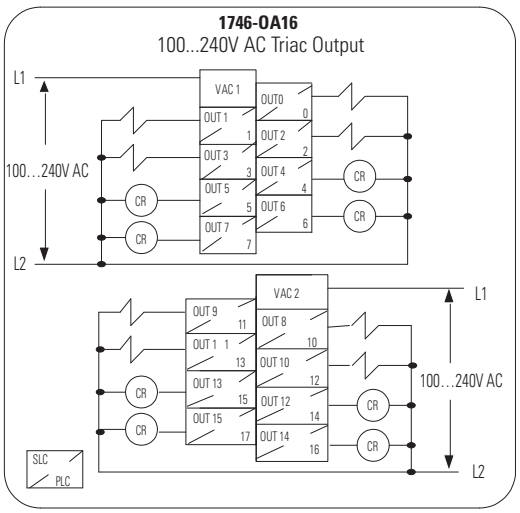
1746-IB8 to 1746-IB16



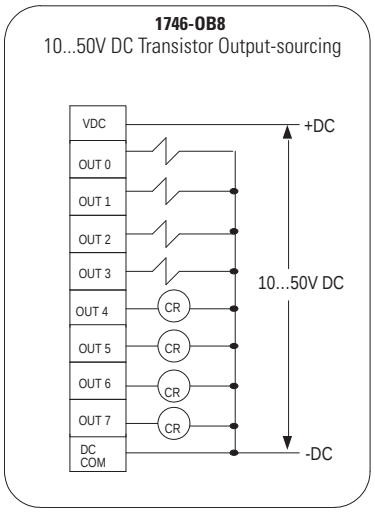


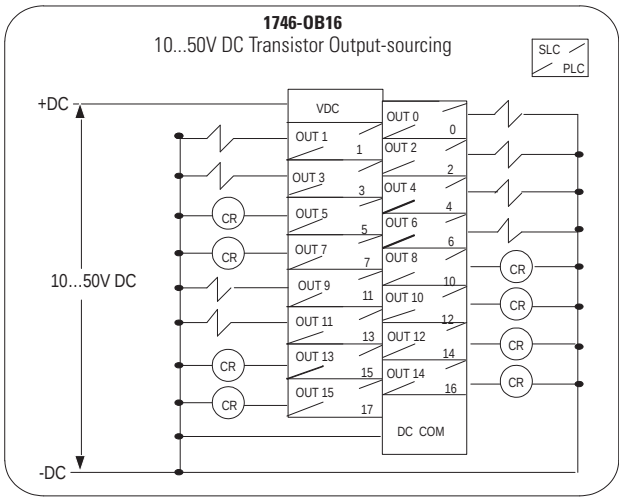
1746-OA8 to 1746-OA16



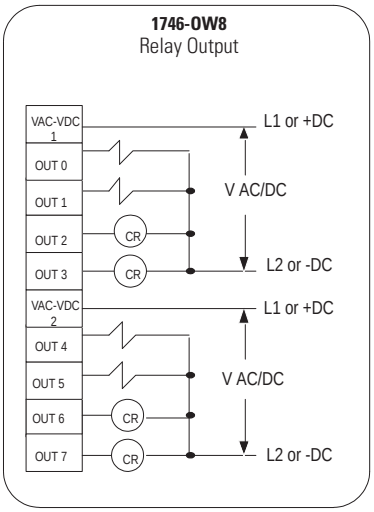


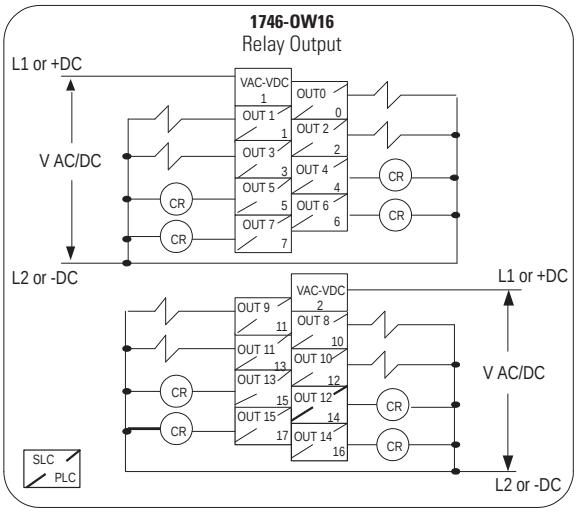
1746-OB8 to 1746-OB16





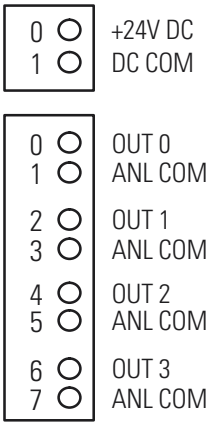
1746-OW8 to 1746-OW16



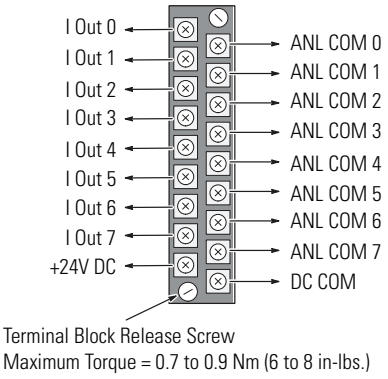


1746-NO4I to 1746-NO8I

1746-NO4I Analog Voltage Output Wiring

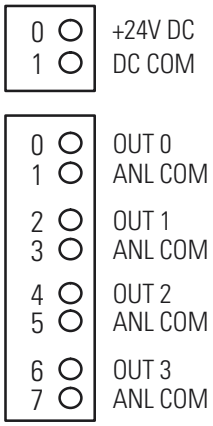


1746-NO8I Analog Current Output Wiring

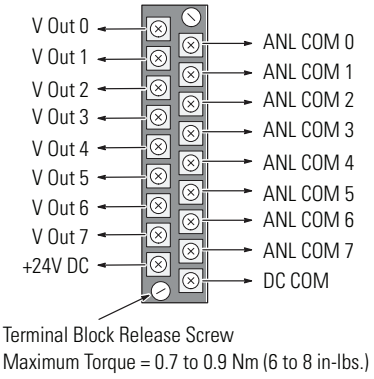


1746-NO4V to 1746-NO8V

1746-NO4V Analog Voltage Output Wiring

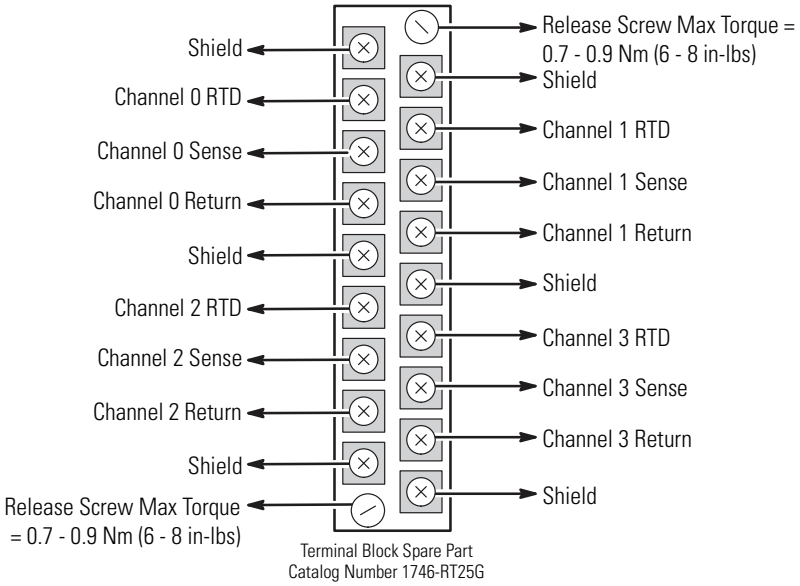


1746-NO8V Analog Voltage Output Wiring



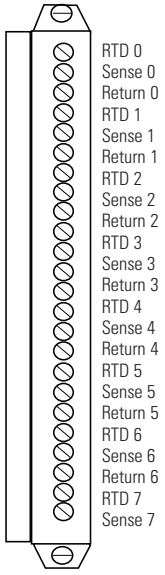
1746-NR4 to 1746-NR8

1746-NR4



Terminal Block Spare Part
Catalog Number 1746-RT25G

1746-NR8

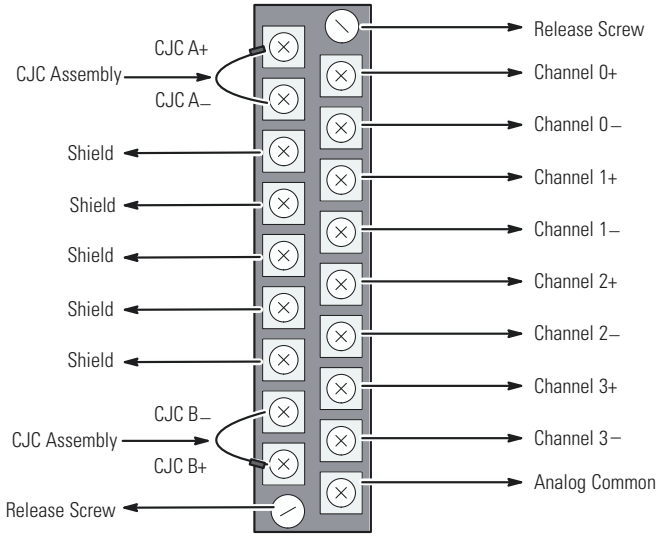


Release Screw Max Torque = 0.25 Nm (2.25 in-lb)

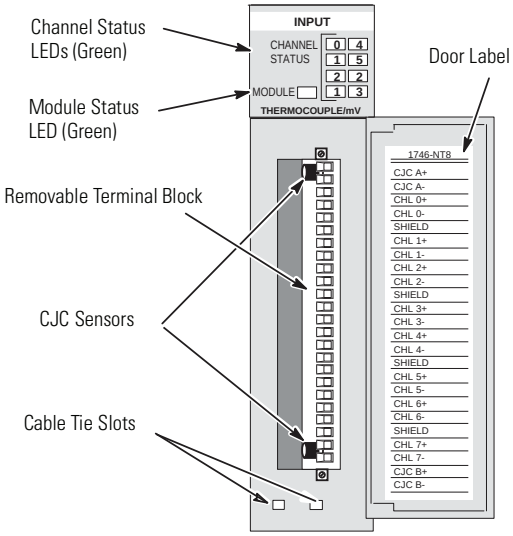
1746-NT4 to 1746-NT8

1746-NT4

(Terminal Block Spare Part Catalog Number 1746-RT32)



1746-NT8

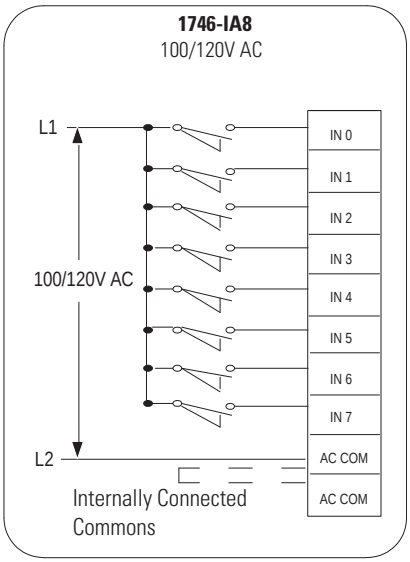


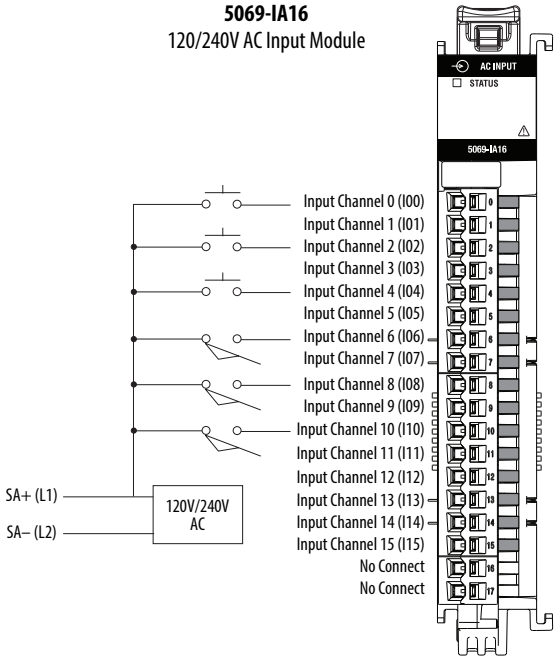
Replace an SLC 500 I/O with a Compact 5000 I/O

IMPORTANT The 5069-IA16 module inputs use a shared common. The inputs have a return through internal module circuitry to the SA(–) terminal on the SA Power RTB.

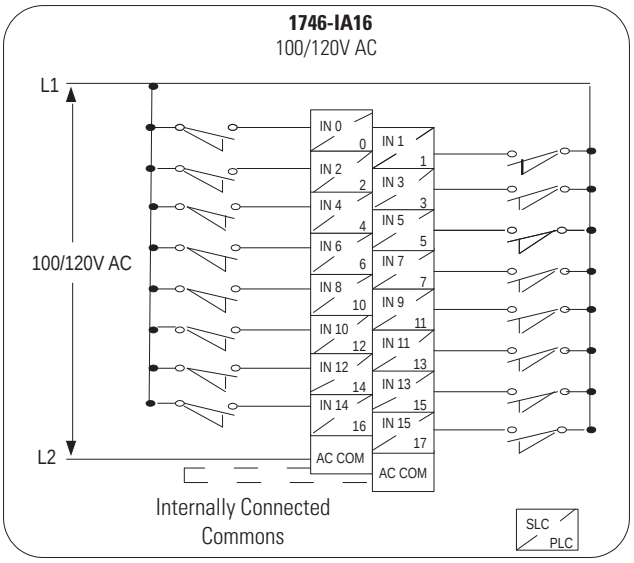
If you install modules in a Compact 5000 I/O system that use AC SA power and DC SA power, you must install them on separate SA Power buses.

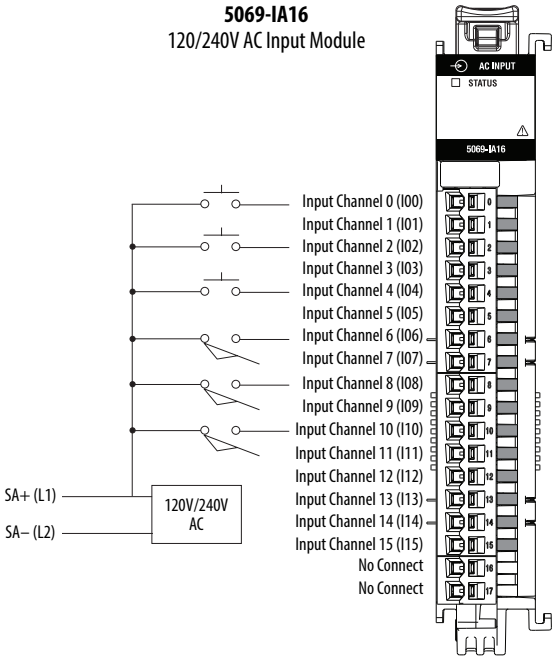
1746-IA8 to 5069-IA16





1746-IA16 to 5069-IA16

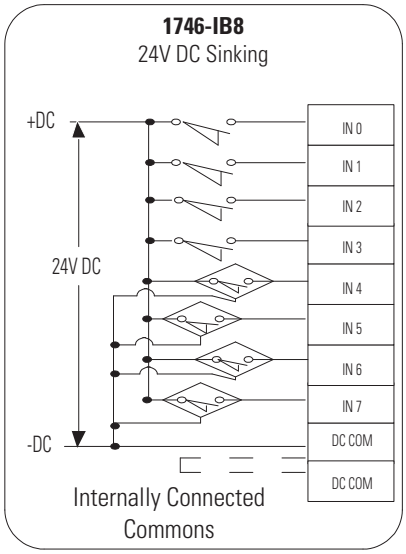


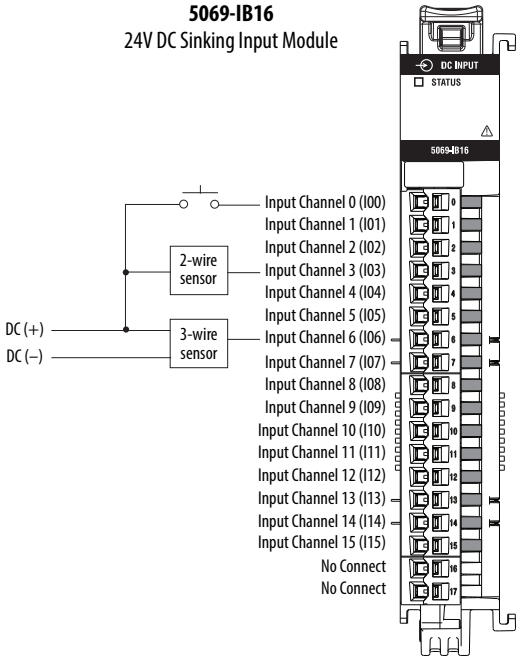


IMPORTANT The 5069-IB16 module inputs use a shared common. The inputs have a return through internal module circuitry to the SA(–) terminal on the SA Power RTB.

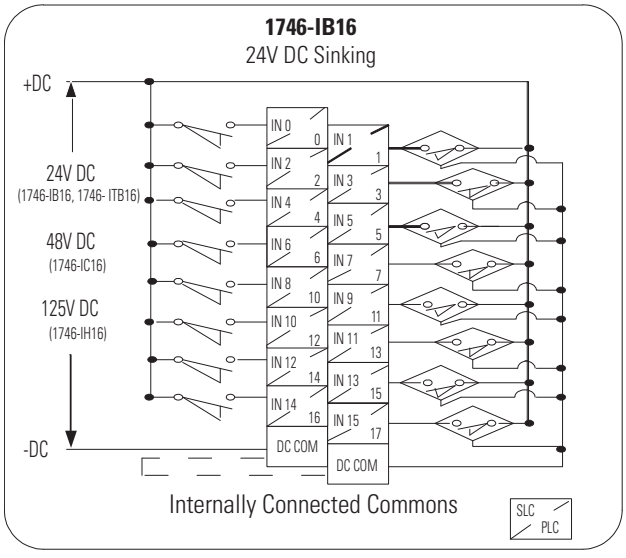
Connect DC(+)/DC(–) to an external power supply that provides SA Power through the SA Power RTB.

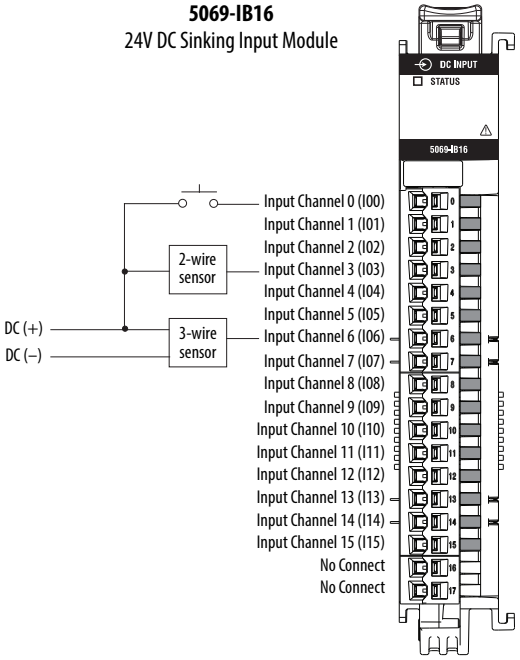
1746-IB8 to 5069-IB16





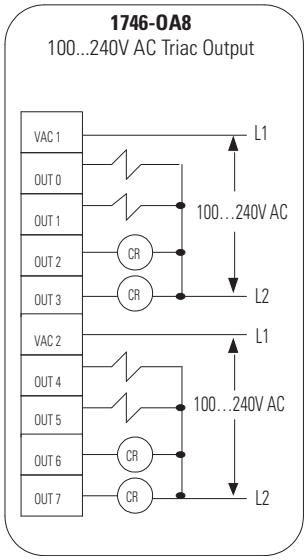
1746-IB16 to 5069-IB16

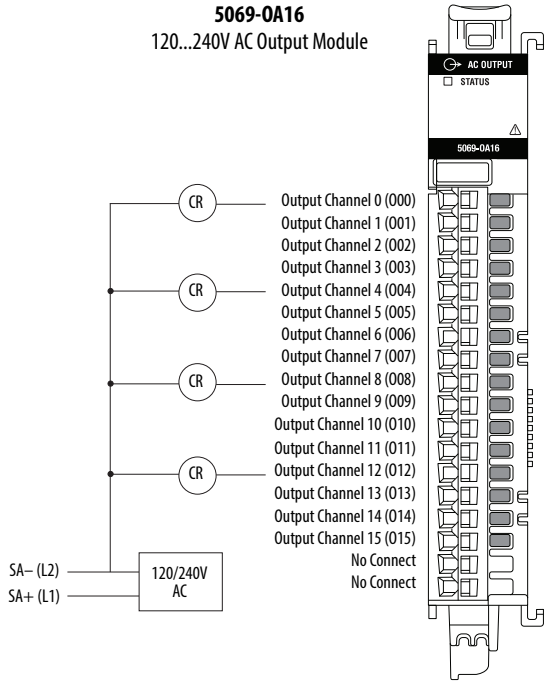




1746-OA8 to 5069-OA16

IMPORTANT If the modules in the 5069 rack requires more than one type of SA bus, for example 24V DC and 240V AC, use a 5069-FPD (field potential distributor) to separate the bus and these modules.

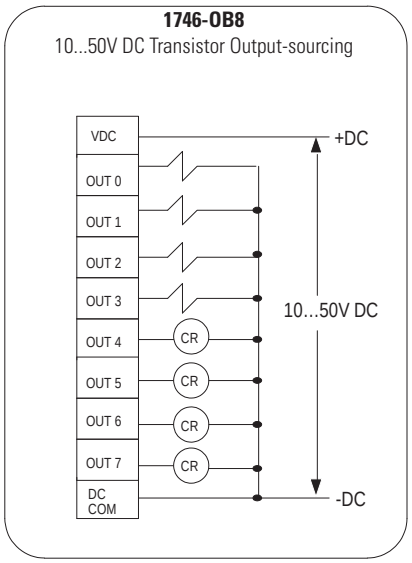


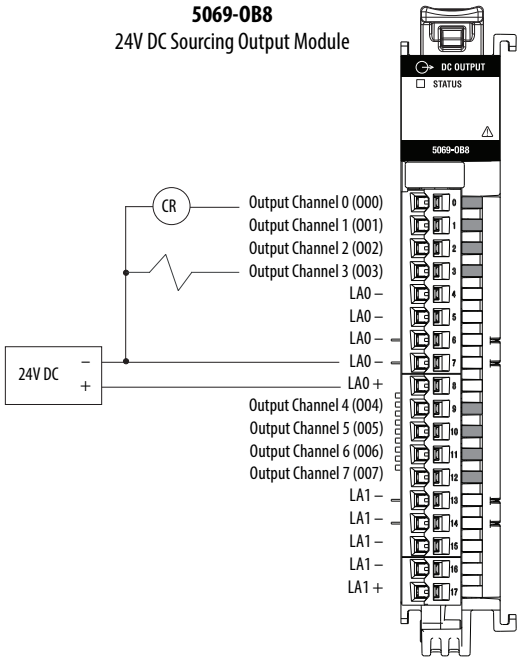


IMPORTANT The 5094-OB8 and 5094-OB16 modules Local Actuator (LA+ and LA–) connections are used to supply field-side power to the module. The module does not draw current from the SA Power bus that is internal to the system.

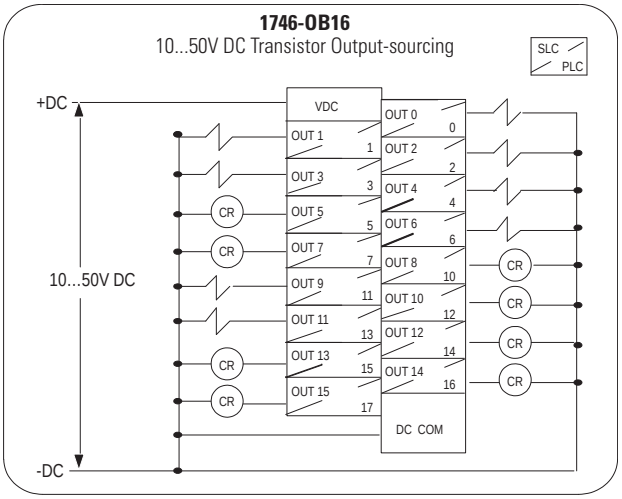
For the 5049-OB8 module, output channels 0...3 use LA0 +/-, and output channels 4...7 use LA1 +/-.

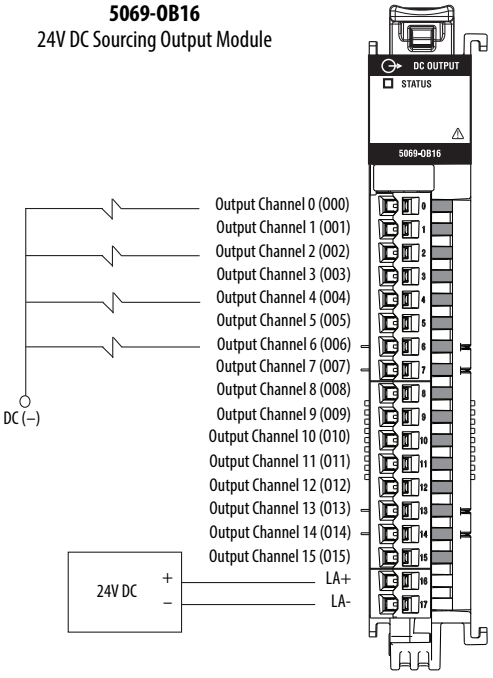
1746-OB8 to 5069-OB8





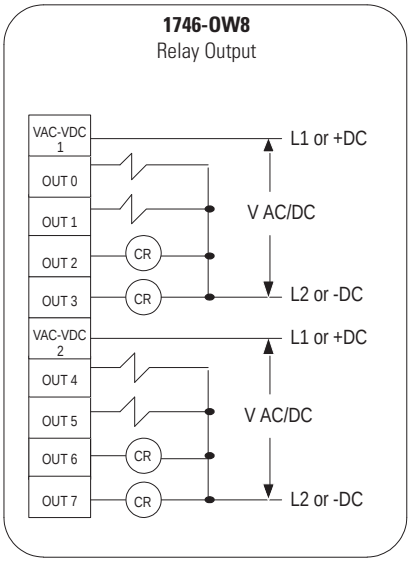
1746-OB16 to 5069-OB16

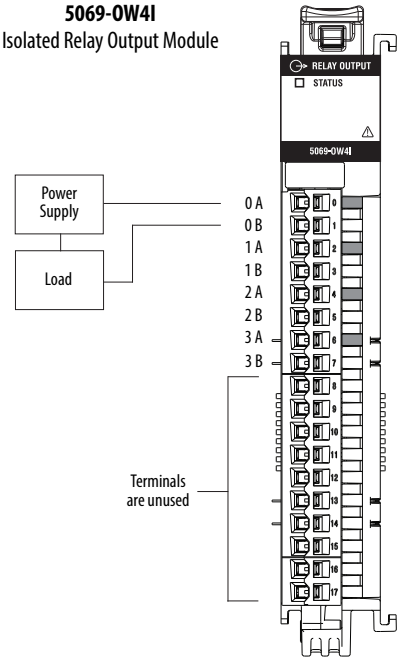




1746-OW8 to 5069-OW4

IMPORTANT The 5069-OW4I module does not use SA power. That is, it does not draw current from the SA Power bus. The module passes it through to the next Compact I/O module in the system.

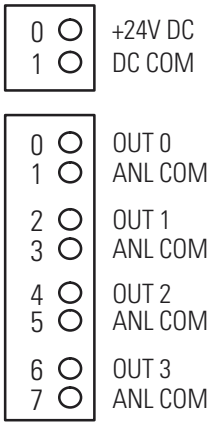




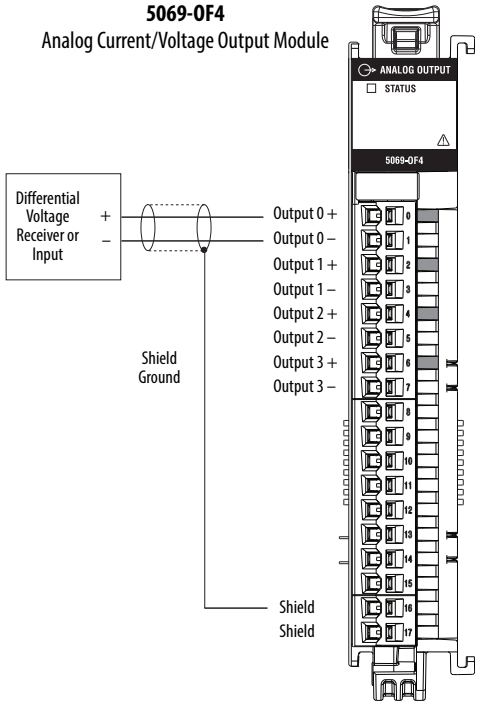
IMPORTANT Place more loop devices, for example, strip chart recorders, at either **A** location in the current loop.

1746-NO4I to 5069-OF4

1746-NO4I Analog Voltage Output Wiring

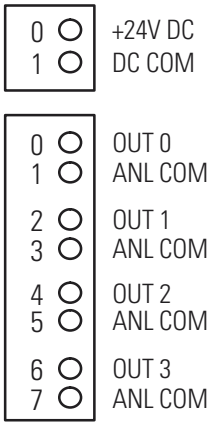


5069-OF4
Analog Current/Voltage Output Module

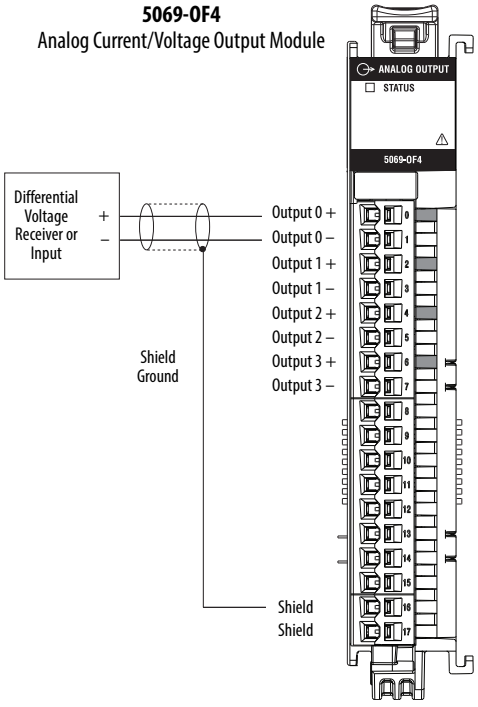


1746-NO4V to 5069-OF4

1746-NO4V Analog Voltage Output Wiring



5069-OF4
Analog Current/Voltage Output Module



Notes:

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products.
At http://www.rockwellautomation.com/support/, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit http://www.rockwellautomation.com/support/.

Installation Assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/support/americas/phone_en.html, or contact your local Rockwell Automation representative.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

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