

1746-OW16

SLC 500 sixteen-point relay output module

Sixteen grouped relay output commands

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley SLC 500 I/O

PART

1746-OW16

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PRODUCT OVERVIEW

Sixteen grouped relay output commands

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Provides sixteen normally open relay outputs

2

Accepts AC or DC field circuits

3

Divides outputs into two isolated groups

4

Occupies one SLC 500 I/O slot

SYSTEM COMPONENTS

SLC 500 chassis

SLC processor and backplane

removable terminal block

AC or DC field loads

TECHNICAL NOTE

Record the slot, terminal block, group commons, load voltage and output addresses; isolate every field source before removing the module.

TECHNICAL DATA

PARAMETER	VALUE
Output points	16
Output type	Normally open relay
Operating voltage	5 to 125 V DC; 5 to 265 V AC
Backplane current	170 mA at 5 V DC; 180 mA at 24 V DC

PARAMETER	VALUE
Isolation voltage	500 V DC
Groups	2 groups of 8 outputs
Operating temperature	0 to 60 degC
Storage temperature	-40 to 85 degC

ENGINEERING NOTE

Record the slot, terminal block, group commons, load voltage and output addresses; isolate every field source before removing the module.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330851-02-000-080-10-00-00	Related industrial automation product	View Bently Nevada 330851-02-000-080-10-00-00 page
Bently Nevada 330851-01-000-020-10-00-00	Related industrial automation product	View Bently Nevada 330851-01-000-020-10-00-00 page
Bently Nevada 330850-91-05	Related industrial automation product	View Bently Nevada 330850-91-05 page
Bently Nevada 330876-01-50-01-05	Related industrial automation product	View Bently Nevada 330876-01-50-01-05 page
Bently Nevada 330876-03-10-00-00	Related industrial automation product	View Bently Nevada 330876-03-10-00-00 page
Bently Nevada 32000-28-05-15-080-03-02	Related industrial automation product	View Bently Nevada 32000-28-05-15-080-03-02 page
Bently Nevada 32000-28-05-08-080-03-02	Related industrial automation product	View Bently Nevada 32000-28-05-08-080-03-02 page
Bently Nevada 31000-16-10-00-050-03-02	Related industrial automation product	View Bently Nevada 31000-16-10-00-050-03-02 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Contactor and relay command bank

Provides sixteen normally open relay outputs

Mixed-voltage actuator control

Accepts AC or DC field circuits

Machine permissive outputs

Divides outputs into two isolated groups

SLC output-module replacement

Occupies one SLC 500 I/O slot

PRODUCT PRECAUTIONS

- 1 Verify the complete 1746-OW16 marking and its assigned Allen-Bradley SLC 500 I/O position before work.
- 2 Place the connected contactor and relay command bank process in the approved maintenance state.
- 3 Isolate applicable power and sixteen grouped relay output commands field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed SLC 500 chassis and SLC processor and backplane against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended mixed-voltage actuator control function and retain the final test result.

ENGINEER FAQ

Q1 Does 1746-OW16 match SLC 500 chassis in a Contactor and relay command bank installation?

Verify the complete 1746-OW16 marking, the documented Allen-Bradley SLC 500 I/O position and the installed SLC 500 chassis before fitting the assembly.

Q2 How should 1746-OW16 be wired when it must provides sixteen normally open relay outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 1746-OW16; then continuity-test the affected path.

Q3 Which Allen-Bradley SLC 500 I/O records should be captured before removing 1746-OW16?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 1746-OW16 before disconnection.

Q4 What controlled test confirms that 1746-OW16 can accepts ac or dc field circuits?

Apply the approved field or simulated stimulus, observe the Allen-Bradley SLC 500 I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which SLC processor and backplane condition should be checked when 1746-OW16 reports an abnormal state?

Check the SLC processor and backplane supply, seating and connection first, then compare channel diagnostics with the recorded 1746-OW16 baseline.

Q6 Can 1746-OW16 be moved directly into Mixed-voltage actuator control without validating AC or DC field loads?

No. Confirm the AC or DC field loads, revision, connection scheme and Allen-Bradley SLC 500 I/O configuration before transferring 1746-OW16 to that duty.

Q7 What maintenance evidence is required after 1746-OW16 is used for Machine permissive outputs?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine permissive outputs functional-test result for 1746-OW16.

Q8 How should 1746-OW16 be returned to service in SLC output-module replacement?

Restore power under control, verify divides outputs into two isolated groups, exercise the intended signal path and release 1746-OW16 only after the Allen-Bradley SLC 500 I/O remains in its approved operating state.

SOURCE Rockwell Automation 1746-OW16 product data | 1746-OW16; 1746-IN027

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