

1747-L30C

Fixed Controller

Integrated SLC 500 program execution, 24 V DC input acquisition and relay-output control

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley SLC 500 fixed hardware contr

PART

1747-L30C

PRODUCT TYPE

Fixed Controller

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PRODUCT OVERVIEW

Integrated SLC 500 program execution, 24 V DC input acquisition and relay-output control

1

Combines controller, inputs and relay outputs

2

Provides eighteen sinking DC inputs

3

Includes one high-speed counter input

4

Provides twelve relay output points

SYSTEM COMPONENTS

85 to 265 V AC main supply

24 V DC field input circuits

relay-controlled field loads

approved SLC 500 program and wiring record

TECHNICAL NOTE

Back up the SLC program, identify every input and relay-output group, isolate all supply sources and verify the exact 1747-L30C identity before replacement.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	1747-L30C
Controller family	SLC 500 fixed hardware style
Main power input	85 to 265 V AC
Discrete inputs	18 sinking 24 V DC inputs
High-speed counter	1 dedicated input
Relay outputs	12

PARAMETER	VALUE
Input wiring range	10 to 30 V DC
Sensor user power	24 V DC, 200 mA
Relay operating range	5 to 265 V AC; 5 to 125 V DC
Output arrangement	Grouped relay circuits; group voltages may differ
Programming platform	SLC 500 fixed-controller programming environment
Reference manual	1747-UM009

ENGINEERING NOTE

Back up the SLC program, identify every input and relay-output group, isolate all supply sources and verify the exact 1747-L30C identity before replacement.

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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Compact machine control

Combines controller, inputs and relay outputs

High-speed event counting

Provides eighteen sinking DC inputs

Mixed-voltage relay commands

Includes one high-speed counter input

Installed SLC renewal

Provides twelve relay output points

PRODUCT PRECAUTIONS

- 1 Verify the complete 1747-L30C marking and its assigned Allen-Bradley SLC 500 fixed hardware controller position before work.
- 2 Place the connected compact machine control process in the approved maintenance state.
- 3 Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4 Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5 Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.
- 6 Confirm the installed 85 to 265 V AC main supply and 24 V DC field input circuits against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended high-speed event counting function and retain the final acceptance result.

ENGINEER FAQ

Q1 Which integrated I/O complement identifies Allen-Bradley 1747-L30C?

1747-L30C provides eighteen 24 V DC sinking inputs, one dedicated high-speed counter input and twelve relay outputs in the fixed-controller assembly.

Q2 What main supply is documented for Allen-Bradley 1747-L30C?

The fixed controller accepts an 85 to 265 V AC main supply; field and user-power circuits still require separate wiring verification.

Q3 How should the sensor supply on Allen-Bradley 1747-L30C be applied?

The controller provides 24 V DC sensor user power rated 200 mA. Confirm the total connected sensor load before commissioning.

Q4 Which field-input range applies to Allen-Bradley 1747-L30C?

The documented sinking inputs use 10 to 30 V DC field wiring and must retain the approved common and polarity arrangement.

Q5 What loads can the Allen-Bradley 1747-L30C relay outputs switch?

Rockwell documents 5 to 265 V AC or 5 to 125 V DC operation; each group and load current must match the controlled circuit design.

Q6 Can Allen-Bradley 1747-L30C output groups use different voltages?

Yes. The relay groups may use different approved voltages, but every group source must be isolated and identified before service.

Q7 What must be retained before replacing Allen-Bradley 1747-L30C?

Retain the program, operating mode, I/O assignments, high-speed counter configuration and all terminal-group identities.

Q8 How is Allen-Bradley 1747-L30C accepted after installation?

Restore power in a controlled sequence, verify the program and diagnostics, then test each input, counter function and relay group under safe conditions.

SOURCE Rockwell Automation SLC 500 Fixed Hardware Style Installation and Operation Manual | 1747-UM009

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