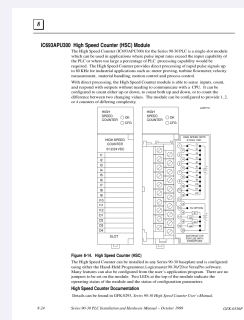


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

IC693APU300

high-speed counter module



PRODUCT	IC693APU300
FAMILY	Series 90-30 motion control
FUNCTION	high-speed counter module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from GE 90-30 Series PLC documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Counter Channels	2
Input Frequency	80 kHz maximum
Counter Range	32-bit signed
Inputs per Counter	Three
Outputs	Four positive-logic outputs
Output Voltage	5 to 30 V DC

02 PREPARATION AND CONNECTION

- Confirm the complete IC693APU300 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

IC693APU300 High Speed Counter (HSC) Module

The High Speed Counter (IC693APU300) for the Series 90-30 PLC is a single-slot module which can be used in applications where pulse input rates exceed the input capability of the PLC or where too large a percentage of PLC processing capability would be required. The High Speed Counter provides direct processing of rapid pulse signals up to 80 KHz for industrial applications such as: meter proving, turbine flowmeter, velocity measurement, material handling, motion control and process control.

With direct processing, the High Speed Counter module is able to sense inputs, count, and respond with outputs without needing to communicate with a CPU. It can be configured to count either up or down, to count both up and down, or to count the difference between two changing values. The module can be configured to provide 1, 2, or 4 counters of differing complexity.

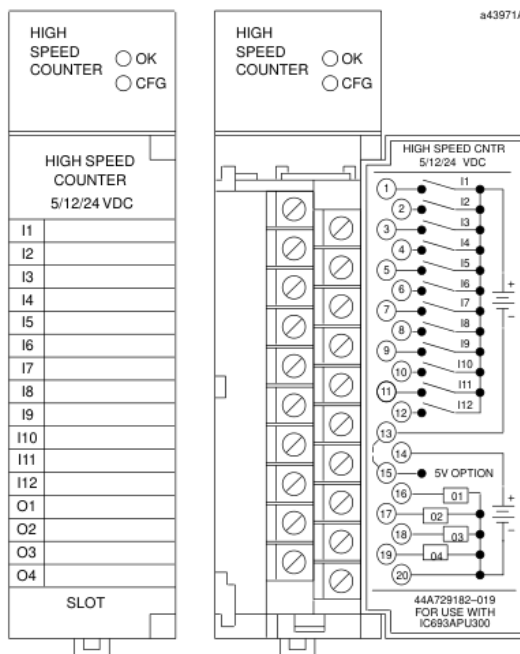


Figure 8-14. High Speed Counter (HSC)

The High Speed Counter can be installed in any Series 90-30 baseplate and is configured using either the Hand-Held Programmer, Logicmaster 90-30/20 or VersaPro software. Many features can also be configured from the user's application program. There are no jumpers to be set on the module. Two LEDs at the top of the module indicate the operating status of the module and the status of configuration parameters.

High Speed Counter Documentation

Details can be found in GFK-0293, *Series 90-30 High Speed Counter User's Manual*.

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	GE official manufacturer documentation
Product record	IC693APU300
Manufacturer	GE 90-30 Series PLC
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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