

APTER POWER PRODUCT REFERENCE MANUAL

ICSA04B5-FPR3341501R1042

AC31 ICSA04B5 12-Bit Analog Output Module

ENGINEERING LENS	12-BIT ANALOG CONVERSION AND LOAD MATCHING
SYSTEM	ABB AC31 / CS31 I/O
SOURCE CONTROL	Manufacturer-published information only

This original Apter Power manual explains 12-bit analog conversion and load matching using only the manufacturer source named inside the document.

Manufacturer	ABB
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Engineering clarity for 12-bit analog conversion and load matching.

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SCAN FOR PRODUCT & QUOTE
ICSA04B5-FPR3341501R1042

1. Product Identity and System Role

ICSA04B5-FPR3341501R1042 is an ABB AC31-series analog output module. ABB's official product page identifies the complete article as an analog output module with 12-bit conversion; exact channel ranges and loading must be taken from the matching AC31 technical documentation.

The module converts controller output values into analog field signals for continuous-control devices such as positioners, converters, and recorders, with range selection, common reference, load, and wiring governed by the exact module manual.

Model Configuration

Field	Verified information
Complete model	ICSA04B5-FPR3341501R1042
Manufacturer	ABB
Product description	AC31 ICSA04B5 12-Bit Analog Output Module
System	ABB AC31 / CS31 I/O

Product-Specific Design Focus

12-bit analog conversion and load matching

2. Technical Specifications and Evidence Boundary

Only values supported by the named ABB source are stated. Where the complete ordering code is absent from public data, the field is explicitly marked for verification.

Parameter	Verified value
Manufacturer	ABB
Module	ICSA04B5
Article	FPR3341501R1042
Published function	Analog output
Published resolution	12 bit
Detailed ranges and loading	Use the exact AC31 technical documentation

Evidence Note

Use the complete ICSA04B5-FPR3341501R1042 identity. ABB maintains a current product-detail page for FPR3341501R1042, but the reviewed page does not state a lifecycle phase. Confirm order availability with ABB. Values not published in the cited ABB source are intentionally not inferred.

3. Functions, Applications and Matched Components

Core Functions

- The module converts controller output values into analog field signals for continuous-control devices such as positioners, converters, and recorders, with range selection, common reference, load, and wiring governed by the exact module manual.
- Preserves the documented role within ABB AC31 / CS31 I/O.
- Supports model-specific engineering review without substituting unverified third-party data.

Application Areas

Application	System role
ABB AC31 / CS31 I/O	Maintains the documented 12-bit analog conversion and load matching role in a correctly matched installation.
Process and machine automation	Supports the control, communication, power, safety, measurement, or protection duty stated in the official source for this exact or verified family identity.
Lifecycle-controlled maintenance	Requires complete-code, nameplate, host-system, and project verification before replacement or recommissioning.

Compatible Components

- ABB AC31 / CS31 controller and I/O architecture supporting ICSA04B5
- Field devices matched to the configured output range and loading limits
- Terminal wiring and grounding arrangement stated in the AC31 manual

Lifecycle Status

ABB maintains a current product-detail page for FPR3341501R1042, but the reviewed page does not state a lifecycle phase. Confirm order availability with ABB.

4. Installation Precautions

- Match every character of ICSA04B5-FPR3341501R1042 to the physical nameplate before work.
- Use the exact ABB manual, wiring drawing, and safety instructions for the installed revision.
- De-energize and apply the required lockout, discharge, ESD, and stored-energy controls before removal.
- Back up firmware, parameters, controller project, calibration, and network settings where applicable.
- Verify supply, signal type, polarity, grounding, shielding, connector pinout, load, and environmental limits.
- Commission with the manufacturer test procedure and record results before returning equipment to service.

DECISION GATE - Verify before installation

Use the complete ICSA04B5-FPR3341501R1042 identity. ABB maintains a current product-detail page for FPR3341501R1042, but the reviewed page does not state a lifecycle phase. Confirm order availability with ABB. Values not published in the cited ABB source are intentionally not inferred.

Controlling records: physical nameplate, current ABB document, and host-system drawings.

5. Official Source and Use Notice

Official manufacturer source

ABB product page for ICSA04B5, article FPR3341501R1042, and ABB AC31 technical documentation 1SBC121001M0201.

<https://www.abb.com/global/en/products/fpr3341501r1042>

Apter Power product page

<https://www.apterpower.com/ABB/icsa04b5-fpr3341501r1042>

Use Notice

This is an original Apter Power model-specific reference prepared from the ABB source named above. It is not a ABB publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and a model-specific quotation, visit www.apterpower.com or contact sales13@apterpower.com.