

Siemens 6ES7336-4GE00-0AB0

Fail-Safe Analog Input

Siemens 6ES7336-4GE00-0AB0 is a six-channel SM 336 fail-safe analog input module with HART support for SIMATIC S7 safety applications.

IDENTITY AND FUNCTION SNAPSHOT

H1 Six fail-safe analog input channels	H2 15-bit plus sign resolution
H3 HART communication support	H4 Up to SIL 3 / PL e / Category 4 capability

Installed-system position

1	2-wire or 4-wire current transmitters
2	20-pole field connection
3	SM 336 fail-safe analog acquisition
4	SIMATIC safety program and diagnostics

Exact-model release boundary

Identity Keep 6ES7336-4GE00-0AB0 complete in drawings, labels and acceptance records.	Evidence Use only the exact-model and explicitly applicable family facts documented here.
Configuration Record cables, jumpers, settings and the installed functional position before work.	Acceptance Prove the affected control path before returning the equipment to service.

02 / SYSTEM ROLE AND INTERFACES

Architecture, interfaces and service boundaries

Siemens 6ES7336-4GE00-0AB0 provides six safety-related analog inputs, current-transducer connectivity, HART support, and diagnostic integration for SIMATIC S7 systems.

CONTROL PATH

1	2-wire or 4-wire current transmitters
2	20-pole field connection

3	SM 336 fail-safe analog acquisition
4	SIMATIC safety program and diagnostics

Interface architecture

Field signals	Six analog current channels for compatible 2-wire or 4-wire transmitters
Field connector	One 20-pole front connection for channel wiring and supply
Backplane	SIMATIC S7 module bus for process data, diagnostics, and parameterization
Communication	HART access for supported field transmitters

Interface acceptance checks

1 Confirm the complete Siemens 6ES7336-4GE00-0AB0 article number and installed hardware revision before replacement.	2 Preserve the safety program, hardware configuration, channel parameters, and F-monitoring settings before removal.
3 Isolate the 24 V DC load supply and verify the field-current circuits before disconnecting the 20-pole connector.	4 Keep every channel within the documented current range and below the 40 mA destruction limit.

Engineering rule

A nearby family code does not establish interchangeability with 6ES7336-4GE00-0AB0; use the physical nameplate and controlled site records.

Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable family source.

Analog inputs	6
Resolution	16 bit including sign; 15 bit + sign
Load supply	24 V DC
L+ current consumption	150 mA typical
Backplane current	90 mA maximum at 5 V DC
Power loss	4.5 W typical
Current input destruction limit	40 mA maximum
Integration time	20 ms at 50 Hz; 16.7 ms at 60 Hz
Signal encoders	2-wire and 4-wire current transducers
Field connector	1 × 20-pole
Communication	HART
Safety capability	Up to Category 4, SIL 3, and PL e in the documented configuration
Lifecycle	Spare part; product cancelled effective 1 October 2025
Country of origin	Germany

CHANCONTROL

Record Capture the full model, revision, slot, connectors and as-found condition.	Compare Match every populated technical row to the replacement and project record.
Protect Apply controlled isolation, stored-energy and ESD practices.	Prove Complete the product-specific functional and safe-state checks.

Source applicability

Evidence record	Applicable scope
Siemens Industry Mall exact article record and technical data sheet for 6ES7336-4GE00-0AB0	Supports only the exact-model or explicitly applicable family facts used in this document.

Siemens S7-300 fail-safe signal modules hardware manual	Supports only the exact-model or explicitly applicable family facts used in this document.
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04 / SERVICE LOGIC AND ACCEPTANCE

Fault isolation and controlled return

1	Capture the fault, indicators and surrounding-system state
2	Verify exact identity, power boundary, cabling and installed position
3	Test 6ES7336-4GE00-0AB0 against the approved service procedure
4	Correct the isolated cause and restore the recorded configuration
5	Commission the affected path and archive measured evidence

Eight product-specific precautions

1 Confirm the complete Siemens 6ES7336-4GE00-0AB0 article number and installed hardware revision before replacement.	2 Preserve the safety program, hardware configuration, channel parameters, and F-monitoring settings before removal.
3 Isolate the 24 V DC load supply and verify the field-current circuits before disconnecting the 20-pole connector.	4 Keep every channel within the documented current range and below the 40 mA destruction limit.
5 Verify whether each channel uses a 2-wire or 4-wire transmitter and restore the correct supply and return path.	6 Maintain the approved HART configuration, device addressing, and asset records for connected transmitters.
7 Do not claim SIL 3, PL e, or Category 4 from the module alone; the complete documented safety architecture must satisfy the target.	8 Perform channel-value, diagnostic, discrepancy, safety-response, and proof-test checks before return to service.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
How many analog inputs does Siemens 6ES7336-4GE00-0AB0 provide?	It provides six fail-safe analog input channels.
What resolution does Siemens 6ES7336-4GE00-0AB0 use?	The maximum resolution is 16 bits including sign, specified as 15 bits plus sign.

Engineering decision	Controlled response
Does Siemens 6ES7336-4GE00-0AB0 support HART?	Yes. HART communication is supported for compatible field transmitters.
Which current transmitters can Siemens 6ES7336-4GE00-0AB0 connect?	The module supports current measurement using 2-wire and 4-wire transducers.
What supply does Siemens 6ES7336-4GE00-0AB0 require?	Its load supply is 24 V DC; typical L+ current consumption is 150 mA and the 5 V backplane current is up to 90 mA.
What is the maximum permissible current at a Siemens 6ES7336-4GE00-0AB0 input?	The published destruction limit for a current input is 40 mA maximum.
What integration times apply to Siemens 6ES7336-4GE00-0AB0?	The documented integration time is 20 ms at 50 Hz or 16.7 ms at 60 Hz.
What must be proven when commissioning Siemens 6ES7336-4GE00-0AB0 in a safety loop?	Verify channel scaling and diagnostics, HART communication where used, discrepancy handling, the configured safe response, and the approved proof-test sequence.

Related Apter Power references

Related Apter Power references	Scope note
Siemens 39RTMCAN	Portfolio reference only; verify compatibility independently.
Siemens 6EP1333-2BA00	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record Siemens 6ES7336-4GE00-0AB0 Fail-Safe Analog Input Verify the complete nameplate before installation.
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