

APTER POWER PRODUCT REFERENCE MANUAL

6ES7136-6BA00-0CA0

SIMATIC ET 200SP F-DI 8x24 V DC HF Module

ENGINEERING LENS	FAIL-SAFE SIGNAL ACQUISITION AND SAFETY VALIDATION
SYSTEM	SIMATIC ET 200SP fail-safe I/O
SOURCE CONTROL	Manufacturer-published information only

This original Apter Power manual explains fail-safe signal acquisition and safety validation using only the manufacturer source named inside the document.

Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIEM-16-6ES7136-6BA00-0CA0-PM-R1
Revision	R1
Issue date	2026-08-14

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Engineering clarity for fail-safe signal acquisition and safety validation.

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



SCAN FOR PRODUCT & QUOTE
6ES7136-6BA00-0CA0

1. Product Identity and System Role

6ES7136-6BA00-0CA0 is a Siemens SIMATIC ET 200SP fail-safe digital input module with eight 24 V DC high-feature inputs in a 15 mm housing. In a correctly engineered safety application it supports safety functions up to PL e and SIL 3.

The module acquires safety-related 24 V DC signals from devices such as emergency-stop contacts, guard switches, and safety sensors, evaluates configured discrepancy and diagnostics, and transfers fail-safe input data to an F-CPU.

Model Configuration

Field	Verified information
Complete model	6ES7136-6BA00-0CA0
Manufacturer	Siemens
Product description	SIMATIC ET 200SP F-DI 8x24 V DC HF Module
System	SIMATIC ET 200SP fail-safe I/O

Product-Specific Design Focus

fail-safe signal acquisition and safety validation

2. Technical Specifications and Evidence Boundary

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

Parameter	Verified value
Manufacturer	Siemens
Product type	F-DI 8x24VDC HF
Fail-safe inputs	8
Rated input voltage	24 V DC
Module width	15 mm
BaseUnit	Type A0
Maximum safety class	PL e / SIL 3
TIA Portal integration	From V12

Evidence Note

Use the complete 6ES7136-6BA00-0CA0 identity. Siemens lists the product as a spare part and identifies 6ES7136-6BA01-0CA0 as its successor; official data showed phase-out effective October 1, 2024. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Matched Components

Core Functions

- The module acquires safety-related 24 V DC signals from devices such as emergency-stop contacts, guard switches, and safety sensors, evaluates configured discrepancy and diagnostics, and transfers fail-safe input data to an F-CPU.
- Preserves the documented role within SIMATIC ET 200SP fail-safe I/O.
- Supports model-specific engineering review without substituting unverified third-party data.

Application Areas

Application	System role
SIMATIC ET 200SP fail-safe I/O	Maintains the documented fail-safe signal acquisition and safety validation 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

- SIMATIC ET 200SP station with supported interface module and BaseUnit type A0
- Siemens F-CPU and fail-safe project configured for the module
- Safety sensors and wiring evaluated according to the safety manual and required architecture

Lifecycle Status

Siemens lists the product as a spare part and identifies 6ES7136-6BA01-0CA0 as its successor; official data showed phase-out effective October 1, 2024.

4. Installation Precautions

- Match every character of 6ES7136-6BA00-0CA0 to the physical nameplate before work.
- Use the exact Siemens 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 6ES7136-6BA00-0CA0 identity. Siemens lists the product as a spare part and identifies 6ES7136-6BA01-0CA0 as its successor; official data showed phase-out effective October 1, 2024. Values not published in the cited Siemens source are intentionally not inferred.

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

5. Official Source and Use Notice

Official manufacturer source

Siemens SiePortal product data and F-DI 8x24VDC HF Equipment Manual for 6ES7136-6BA00-0CA0.

<https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7136-6BA00-0CA0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7136-6ba00-0ca0>

Use Notice

This is an original Apter Power model-specific reference prepared from the Siemens source named above. It is not a Siemens 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.