

Siemens 6ES5434-4UA11

Universal Digital Input Module

Product scope

- Reads thirty-two low-voltage TTL, CMOS or NAMUR-compatible input signals.
- Supports 100 Hz field-state acquisition with an approximately three-millisecond delay.
- Uses separate auxiliary supply ranges to match the connected sensor technology.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Siemens 6ES5434-4UA11

Universal Digital Input Module

Product overview

Siemens 6ES5434-4UA11 is a SIMATIC S5 thirty-two-channel input module for TTL, CMOS and NAMUR-compatible field signals. It supports separate 5–15 V and 12–24 V DC input supplies in a compact 20 mm format.

6ES5434-4UA11 accepts multiple low-voltage sensor interface types across thirty-two channels. Its input circuitry is designed for logic-level devices and NAMUR-style sensors rather than conventional 120 V field contacts.

A typical three-millisecond response supports routine machine detection at rates up to 100 Hz. The module's enable function and supply monitoring allow the rack application to supervise the interface state.

The correct LH+ or L+ supply must be assigned to the selected sensor type, and thresholds are not interchangeable between TTL, CMOS and NAMUR wiring. Front-connector bridges and common references must be documented before removal.

Technical specifications

Input channels	32
Supported signal types	TTL, CMOS and NAMUR
LH+ supply range	5 to 15 V DC
L+ supply range	12 to 24 V DC
Maximum input frequency	100 Hz
Typical input delay	3 ms
TTL/CMOS cable length	200 m maximum
NAMUR cable length	600 m maximum
Backplane supply	5 V DC
Backplane current	80 mA
L+ current consumption	100 mA
LH+ current consumption	150 mA
Enable input	Provided
Input behaviour	Floating groups according to wiring
Module width	20 mm
Module height	255 mm
Module depth	195 mm

6ES5434-4UA11 function and operating principle

Ordered configuration

The universal S5 434 execution serves logic-level and NAMUR interfaces in one dense input card.

System role

It brings proximity sensors and electronic device states into the legacy controller process image.

Selection and installation

Selection of sensor family, supply terminal and threshold is more important than a simple channel-count match.

Functional path

- Reads thirty-two low-voltage TTL, CMOS or NAMUR-compatible input signals.
- Supports 100 Hz field-state acquisition with an approximately three-millisecond delay.
- Uses separate auxiliary supply ranges to match the connected sensor technology.

Application scenarios

- Packaging machines connect NAMUR proximity sensors in areas where low-energy input interfaces are required.
- Electronic assemblies use TTL or CMOS status lines to communicate fixture and test-state information to the S5 CPU.
- Retrofit panels retain mixed low-voltage sensor populations without adding separate signal converters for every channel.

6ES5434-4UA11 engineering checks

Compatibility & Interoperability

- TTL, CMOS and NAMUR signal families are supported when wired to their documented supply arrangement.
- Sensor leakage and switching thresholds must fit the chosen interface rather than only the nominal voltage.
- The module belongs in the compatible SIMATIC S5 rack and hardware configuration.

Monitoring & Control

- The enable circuit can inhibit or release input processing within the configured installation.
- A typical three-millisecond delay filters brief transitions before they enter the process image.
- Up to 100 Hz input activity can be evaluated for normal machine-status monitoring.

Certifications & Standards

- Electrical safety and isolation tests are specified in the Siemens module documentation.
- Installation must follow the S5 wiring, grounding and enclosure rules for the selected sensor supply.
- Cable type and length remain part of compliance with the documented noise-immunity conditions.

Critical technical note

Match each sensor group to the correct LH+ or L+ supply on 6ES5434-4UA11; applying the wrong interface voltage can damage field devices.

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