

Siemens 6ES5420-4UA12

SIMATIC S5 420 32-channel 24 V digital input module

Product scope

- Thirty-two non-floating 24 V DC inputs use a typical 3 ms qualification delay.
- The module accepts full channel diversity and provides green input-status indication.
- Official lifecycle information identifies the article as deleted without a direct replacement.

Manufacturer source

Siemens SIMATIC S5 6ES5420-4UA12 official module documentation.

This English web copy combines exact-model specifications with detailed function, system role, operating principle, application scenarios and installation boundaries.

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Siemens 6ES5420-4UA12

SIMATIC S5 420 32-channel 24 V digital input module

Verified technical specifications

Values below apply to the exact model or nameplate identified on this page; adjacent family variants are not merged.

Digital inputs	32, non-floating
Nominal input voltage	24 V DC
Input low level	-33 to +5 V
Input high level	+13 to +33 V
Input current	Approximately 8.5 mA
Input resistance	Approximately 2.8 kohm
Input delay	Typical 3 ms
Maximum input frequency	100 Hz
Permitted diversity	100 percent
Unshielded cable length	Up to 600 m
Shielded cable length	Up to 1000 m
5 V bus current	Approximately 80 mA
Dimensions	20 x 255 x 195 mm
Mass	Approximately 0.4 kg
Lifecycle	Deleted without replacement
2-wire BERO supply	22 to 33 V DC
Enable input current	Approximately 5 mA
Enable cable length	Up to 200 m
Impulse withstand test	1 kV
Channel indication	Green status LEDs
Enable indication	F+ enable display

Product function and system role

Exact configuration

Siemens 6ES5420-4UA12 is a SIMATIC S5-420 digital input module with 32 non-floating 24 V DC channels. Siemens records the legacy article as deleted without a direct replacement.

The 6ES5420-4UA12 reads thirty-two 24 V DC field states for SIMATIC S5 control programs. Its non-floating channels use published voltage thresholds, approximately 8.5 mA input current and a typical 3 ms delay to form the process image used by the legacy CPU.

Functional role

Field levels are compared with defined thresholds, then transferred to the S5 process image when the enable path is valid.

The order number belongs to the SIMATIC S5-420 input family and must be matched exactly for legacy spares.

Key operating characteristics

- Thirty-two non-floating 24 V DC inputs use a typical 3 ms qualification delay.
- The module accepts full channel diversity and provides green input-status indication.
- Official lifecycle information identifies the article as deleted without a direct replacement.

Operating principle and application guidance

Working principle

The card supports full input diversity and cable lengths up to 600 m unshielded or 1000 m shielded under the official conditions. A 22–33 V supply is available for compatible two-wire BERO devices, and the front LEDs display channel state together with the F+ enable condition.

Preserve the connector schedule, F+ enable wiring and software address map because the manufacturer does not nominate a plug-in successor.

Application scenarios

- Existing S5 machines can collect dense interlock and equipment-feedback signals through one 32-point card.
- Two-wire BERO sensors can use the documented module supply when their current and wiring meet the official limits.
- Long field runs can be engineered with the published shielded or unshielded cable limits for established installations.

Integration and replacement boundary

Siemens marks the article deleted without replacement, so a migration cannot be inferred from a newer number. Keeping an operational spare requires verification of rack type, address allocation, front connector, enable circuit and the S5 program that interprets these input bits.

Critical technical check

Because 6ES5420-4UA12 is deleted without replacement, verify the S5 rack, connector and program address before the outage; a physically similar input card is not automatically electrically compatible.

Manufacturer evidence used

- Siemens SIMATIC S5 6ES5420-4UA12 official module documentation.
- Exact product identity checked: Siemens 6ES5420-4UA12



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