

AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

SIEMENS 6ES7231-5QD32-0XB0

SM 1231 thermocouple analog input module

Siemens 6ES7231-5QD32-0XB0 is a SM 1231 thermocouple analog input module in the SIMATIC S7-1200 product family. Four-channel thermocouple signal module for S7-1200 systems with 16-bit thermocouple conversion and configurable diagnostics. Confirm the complete order number and installed system configuration before replacement.

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OFFICIAL PRODUCT PARAMETERS

Manufacturer	Siemens
Order number	6ES7231-5QD32-0XB0
Product family	SIMATIC S7-1200
Product type	SM 1231 thermocouple analog input module
Dimensions	4.5 x 10.0 x 7.5 cm
Net weight	0.160 kg
Input channels	4 thermocouple inputs
Resolution	16-bit thermocouple conversion
Temperature resolution	0.1 °C / 0.1 °F
Power dissipation	1.5 W
Backplane current	80 mA
External 24 V current	40 mA
Maximum cable length	100 m

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APPLICATION AND SELECTION NOTES

- Match the complete Siemens order number, hardware generation and firmware requirements.
- Confirm electrical ratings, channel type, wiring, connector and enclosure conditions.
- Use the applicable Siemens system manual and controlled machine documentation for configuration.
- Back up the existing program or hardware configuration before replacing a controller or module.
- Perform channel-by-channel functional tests before returning the machine to production.

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IDENTIFICATION NOTICE

Use the complete order number 6ES7231-5QD32-0XB0. Similar-looking SIMATIC products may differ in supply voltage, I/O type, channel count, firmware, connector arrangement or approved application.