

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7521-1BH50-0AA0

SIMATIC S7-1500 / ET 200MP | DI 16x24VDC SRC BA

INPUTS	SIGNAL	DIRECTION	WIDTH
16 digital channels	24 V DC	Sourcing / reading M	35 mm

Siemens 6ES7521-1BH50-0AA0 reads discrete signals from switches and compatible proximity switches. It operates in a SIMATIC S7-1500 or ET 200MP station; this sourcing-input module reads M and is not interchangeable with a different input circuit solely because the channel count matches.

01

VERIFIED TECHNICAL DATA

Input characteristic	IEC 61131 type 3
Permitted DC supply range	20.4 to 28.8 V DC
Input current at signal 1, typical	4.5 mA
Input delay, both transitions	3 to 4 ms; not configurable
Electrical isolation	One 16-channel group isolated from the backplane
Power from the backplane bus	0.9 W
Power loss, typical	2.8 W
Two-wire sensor quiescent current	1.5 mA maximum

Technical basis: Siemens A5E03486159-AD, 09/2016, pp. 11-12 and 21-23. The current catalog describes a nominal input delay of 3.2 ms; the manual specifies the 3-4 ms limits. Check the installed version before use.

02 INSTALLATION & OPERATING LIMITS

Operating temperature, horizontal	0 to 60 C
Operating temperature, vertical	0 to 40 C
Signal cable length, maximum	Shielded: 1000 m; unshielded: 600 m
Module dimensions (W x H x D)	35 x 147 x 129 mm; not packed dimensions
Status indications	RUN, ERROR and green channel LEDs
Field diagnostics / interrupts	No wire-break or short-circuit monitoring; no hardware interrupts

03 INTEGRATION & ORDERING CHECKS

- Order the appropriate front connector separately; current Siemens listings permit screw or push-in terminals.
- Use compatible M-switching field circuits and the exact terminal drawing. Do not assume a PNP sensor matches a sourcing input.
- The basic configuration occupies two input bytes. Shared Input and split-submodule configurations require suitable module firmware, engineering software and interface support.
- Do not select this BA module for high-speed counting, hardware interrupts or safety input functions.

04 OFFICIAL DOCUMENTATION

[Siemens module manual - A5E03486159-AD, 09/2016](#)

[Current Siemens product record - 6ES7521-1BH50-0AA0](#)

This reference is not an as-built firmware or stock certificate. Follow the current applicable Siemens system and product instructions.

AMIKON PRODUCT SUPPORT

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