AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7521-1BL10-0AA0

DI 32x24VDC BA Input Module



MODULE	INPUTS	SUPPLY	INPUT DELAY
DI 32x24VDC BA	**32**	**24 V DC**	**3-4 ms**

Siemens 6ES7521-1BL10-0AA0 is the DI 32x 24VDC BA module for S7-1500 and ET 200MP. Thirty-two sinking inputs occupy a 25 mm housing, with channels organized in groups of sixteen and a fixed response rather than selectable HF filtering.

01 VERIFIED TECHNICAL INFORMATION

Digital input count	32
Input voltage	24 V DC nominal
Permitted supply range	20.4-28.8 V DC
Input characteristic	Sinking; IEC 61131 Type 3
Channel grouping	Groups of 16; no individual channel isolation
Input response	Fixed 3-4 ms for both signal transitions
Input logic levels	Logic 0: -30 to +5 V; logic 1: +11 to +30 V. Negative-voltage limit: -3 V continuously, -30 V only briefly for reverse-polarity protection.

Manufacturer evidence: Digital input module DI 32x24VDC BA (6ES7521-1BL10-0AA0); exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Input current at logic 1	2.7 mA typical
Two-wire sensor quiescent current	1.5 mA maximum
Maximum cable length	1000 m shielded; 600 m unshielded
Backplane power consumption	1.05 W
Typical power loss	3 W
Hardware and diagnostic interrupts	Not provided
Input configuration formats	1×32 channels; 4×8-channel split or MSI under documented PROFINET requirements
Connection format	40-pin push-in front connector in manufacturer's stated delivery scope

03 SOURCE AND CONFIGURATION CHECKS

STEP 7 can represent the module as one thirty-two-channel unit, four eight-channel submodules or a documented shared-input configuration. These choices affect the process image and controller allocation. The module does not supply hardware interrupts or channel diagnostic functions.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Siemens original documentation and product reference

Siemens 12/2014; S1 source pp. 3,37-38,49-58,60,65-69,75-76,144,183-187

AMIKON PRODUCT SUPPORT

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