AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7421-1BL00-0AA0

SM 421 Digital Input Module

INPUTS	VOLTAGE	CHARACTERISTIC	INDICATORS
32 digital	**24 V DC**	**IEC type 2**	**Green channel LEDs**

Siemens 6ES7421-1BL00-0AA0 is an SM 421 module with 32 digital inputs for rated 24 V DC signals. Its channels share one field reference and are isolated from the backplane. The documented type 2 input characteristic supports switches and two-wire proximity sensors.

01 VERIFIED TECHNICAL INFORMATION

Input count	32 digital inputs
Rated input voltage	24 V DC
Signal-one voltage	11 to 30 V
Signal-zero voltage	-3 to +5 V; -30 to +5 V only from hardware version 03
Signal-one input current	6 to 8 mA
Input delay	1.2 to 4.8 ms for both transitions
Input characteristic	IEC 61131 type 2

Manufacturer evidence: S7-400, M7-400 Programmable Controllers Module Specifications; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Two-wire proximity sensor bias current	Maximum 2.5 mA
Field isolation arrangement	One group of 32; isolated from backplane, not channel-to-channel
Backplane current	Maximum 30 mA
Electronic supply current from L+	Maximum 30 mA
Typical module dissipation	6 W
Status and diagnostics	Green LED per channel; no interrupts or diagnostic functions
Signal cable limit	600 m unshielded; 1000 m shielded
Simultaneously active inputs	32

03 SOURCE AND CONFIGURATION CHECKS

Green channel indicators show input status, while this version provides neither diagnostic functions nor interrupts. The signal-zero range changes from hardware version 03 onward. Confirm the actual unit revision before using that extended negative-voltage allowance; the order number alone does not establish the supplied hardware version.

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 09/2003; M03 source pp. 2,139-142

AMIKON PRODUCT SUPPORT

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