

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7321-1BL00-0AA0

32-Channel Digital Input Module



MODULE	INPUTS	SIGNAL	CONNECTOR
SM 321	32 digital	24 V DC	40-pin

Siemens 6ES7321-1BL00-0AA0 is an SM 321 digital input module for SIMATIC S7-300. It receives 32 discrete signals at a nominal 24 V DC and connects field wiring through a 40-pin front connector, with channels separated into two isolated groups.

01

VERIFIED TECHNICAL INFORMATION

Digital inputs	32
Rated input voltage	24 V DC
Input characteristic	IEC 61131 Type 1
Signal-state voltage thresholds	Signal 0: -30 to +5 V; signal 1: 13 to 30 V
Input current at signal 1	7 mA typical
Input delay	1.2 to 4.8 ms for either transition; not parameterizable
Backplane current consumption	15 mA maximum from 5 V DC backplane

Manufacturer evidence: S7-300 Module data; applicable model section and exact-model data sheet.

02 TECHNICAL INFORMATION CONTINUED

Typical power loss	6.5 W
Isolation arrangement	Groups of 16 inputs; isolated from backplane by optocouplers
Isolation test voltage	500 V DC
Front connector	40-pin
Signal cable limits	1,000 m shielded; 600 m unshielded
Two-wire sensor quiescent current	1.5 mA maximum
Simultaneously active inputs	Horizontal: 32 up to 40 °C, 16 up to 60 °C; vertical: 32 up to 40 °C
Input status indication	One green LED per channel

03 SOURCE AND CONFIGURATION CHECKS

The module accepts signals from switches and compatible proximity sensors. Green indicators show individual input states, while optical isolation separates the field inputs from the backplane. Its fixed input delay supports standard discrete signal acquisition without configurable diagnostic alarms or hardware interrupts.

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

AMIKON PRODUCT SUPPORT

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