AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7321-7BH00-0AB0

Sixteen-Channel Digital Input Module



INPUTS	RATED INPUT	SENSOR SUPPLIES	DELAY SETTINGS
16 digital	**24 V DC**	**2 protected outputs**	**0.1-20 ms, selectable**

Siemens 6ES7321-7BH00-0AB0 is an SM 321 digital input module for SIMATIC S7-300 installations. It acquires sixteen 24 V DC input signals in one isolated group and provides two protected sensor supplies serving eight input channels each.

01 VERIFIED TECHNICAL INFORMATION

Digital input channels	16, in one electrically isolated group of 16
Rated supply/input voltage	24 V DC
Signal voltage levels	Signal 1: 13 to 30 V; signal 0: -3 to +5 V
Signal-1 input current	Typically 7 mA
Input characteristic	IEC 1131 Type 2
Selectable input delays	0.1, 0.5, 3, 15 or 20 ms; default 3 ms
Signal cable limits	600 m unshielded; 1,000 m shielded

Manufacturer evidence: S7-300 and M7-300 Programmable Controllers Module Specifications; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Sensor-supply outputs	2; one for channels 0-7 and one for channels 8-15
Sensor-supply current	120 mA rated per output; permitted range 0-150 mA
Sensor-supply voltage	At least L+ minus 2.5 V under load
Backplane consumption	55 mA maximum
L+ consumption	40 mA maximum, excluding sensor supply
Typical power loss	4 W
Isolation test voltage	500 V DC
Interrupt and diagnosis functions	Programmable process and diagnostic interrupts; red SF group-fault indicator

03 SOURCE AND CONFIGURATION CHECKS

Input filtering, diagnostics and process interrupts can be configured for the installation. Channel indicators show input states, while separate sensor-supply and group-fault indicators support status checking. An external redundant sensor supply is supported using the manufacturer's specified connection arrangement.

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

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AMIKON PRODUCT SUPPORT

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